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agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240
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gtttgacatg atagtcactg caatagagga ggcccaagac atctgcaaca tgagagtaga 360
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<210> 36018
<211> 416
<212> DNA
<213> Glycine max

<400> 36018
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tcatttggcc aatgcttaga agattgtctt ttaggctggg aactagtaag acatcatgga 180
tgagtgcggt acctttatct gtctccacca tgatagtgc tttgcctttt gattcaacca 240
cacttgatatt tcccagttga actatgactt tgacagactc atcaatactt ttaaaaatag 300
tcttatacctt ggccatgtga ttgctacatc cactatccaa gtaccagttt cctccctttt 360
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<210> 36019
<211> 306
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36019

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catatcactc aagttcccaa caaagaggct gtagactgca acctttactc gggatgggtgc 180
accacaaaga accgcttcta ctcttcaaca catcctagta accctgatta gacaccgtca 240

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<210> 36020
<211> 410
<212> DNA
<213> Glycine max

<400> 36020

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cagttcgggtg caacctcacc tacatctggg ggctaccaag ccagggagga aatccactaa 300
aatagtgtta gttcaaggtc taacagccac tatttacaac cttctcacct aaccactacc 360
cgtgcgacct ctacctatga gccactctta tatatgagaa cccctctcac 410

<210> 36021
<211> 428
<212> DNA
<213> Glycine max

<400> 36021

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cacctcatgg actcctctaa gaacaataac atcatttctt aactgaatt gttgggagtt 240
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accactggca gcatcaatca tactcctctc catgttgcta agaccctcat agaaatattg 360
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ttcccagt 428

<210> 36022
<211> 375

<212> DNA
 <213> Glycine max
 <400> 36022
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 gaaccacata tttgcatgta gtgggaagaa aggaaggttc ccttaacccc ccaaggccct 240
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 cgagccaacg ccatttgc atcaaagtaa taacgccgtt ccgtggaagt ataccctcc 360
 cgcgttcaac gaaag 375

<210> 36023
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36023
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 cctcaaagaa ccgcttctac tcttcagcac atcctaataa cccgattaag aaaccatcat 240
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 ttgaccctct aaccatccaa gagttcaaca aggtccgcac catcctatcc aaccaccccc 360
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 agctagtcct c 431

<210> 36024
 <211> 373
 <212> DNA
 <213> Glycine max
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cattctctat ttttctctcc tctgtaactg aatcctaacc aactcaacac cattctttct 180
caaaatcgtt attgcatcct ttagggctct ttgataaatg tgtttggatc tatgttcttt 240
ggtaagtccc attctttgca ttgaaagggtg tcctattgac cttaatgggg ggtctctagt 300
gacttatatg gatttatatga tcattctttt actattagat gatctcaact aggtcttctt 360
ttatcgattg act 373

<210> 36025
<211> 335
<212> DNA
<213> Glycine max

<400> 36025
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tgcataaaat acatttgtgt catgcgccga ataagcatct cttcatgcat ccattccatg 180
atagatgttg aagtattgat tcaaaccgga tttttcattc tactaaacat gggatcaaat 240
caaacacctc ttctcaagat aagggttctat caagtcaaaa tcaagagctt agaggtcact 300
agtttacgag agtgggggca attaatgggt caact 335

<210> 36026
<211> 396
<212> DNA
<213> Glycine max

<400> 36026
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gttacttggg ttgcttaatg tgcaatacat aaaaaacttt cacacatatt tctaatttaa 180
ataaatccaa taaattttcc aaactaatta tttgtagatc cgtttttagtt attttaaatt 240
agtataaaaa tatataatgt tgcaacgagt tgcaaacaca aatattatga ctatagacca 300
aaatagaagc taacaaaac aaatactaatt ttatttattt tgctaacaaa ttatattgag 360
aaatagagga tgtcaagcta atctttaact ctacta 396

<210> 36027
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36027

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 caagtttata atggcatgca aatgttattt agggatgaga tacttcagat gatatgccat 180
 tttgaaggag catgctagca tataaacact acaacattga agcattatca caagataaaa 240
 cccagcaatt atcagaagaa ttccaactgg tcatgactca tgagaactga atgttgtcat 300
 gtaaaccatc acagttaagt tcattgcaga agatcggaca tgagaatnta ttattaattg 360
 tntttcgact tagtatctct aataccattt gtaanaagga aataaatttg tgaggggaaa 420
 aaagagacat gcttg 435

<210> 36028
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36028

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 gactagaaag acatcatgca actaaaaaaaa taatagatac aaattacttc tttcatattg 180
 atgcatagga agatttctta aatacaatgt atatagccat atcttcattt acaattacaa 240
 acaatgctac agaatatgga caacataaaa ctaagttcct gaccaaaggg cctaagcaaa 300
 tggcaataat aaacttatca atatcatatt caaactgccg gtgctatttc ctattgcat 360
 tatgactcac atatacaaca tactgtacag atgacatgat agaaccaccc aaaataatgg 420
 caagcacatg ctat 434

<210> 36029
 <211> 455
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 36029

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 ccagaatatg tgcttatgat atttttgtga ttatccaggc caacaatggt gacatgtaca 180
 taaatgggca tgaccattgc ctccaacata taagcagcac agataggtaa cgaataaaca 240
 aaaatacatt ctcccaatca aactatatat gtggttntat aaagtaattt cttctttatt 300
 ataccaatat caaaatgcag cccacttcta tatttaacga gtggagcagg atcaaaggca 360
 tggagagggtg atgttaaaga aaccacttt gatgtgaaat tcttttatga tggtaagggt 420
 ttcatgtctg ttcaaagac tgaccatgac acaaa 455

<210> 36030
 <211> 378
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36030

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 attttaatcc ggtcaagaat attaactaaa tgatgaaatt aaagttctct cggaattttt 180
 actacaccct gtaattttta cttatccacc ggatttactt atgtggaatt ttaattatat 240
 gcacgaataa ttctattogc tataataatg atattcaact ctaatagaac tactgtttgt 300
 aaataatata tgtgattttac aacaatataa acttctaaga ccttatttat agacatgtga 360
 gtacatatta ctattact 378

<210> 36031
 <211> 372
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36031

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 gcgacatggt ccgcttagcc cgttcatcta gaaatccaaa catctaacag ttgtgatgaa 180
 cacgctaagc gcaacatgcg cgcttagcgc gttcatcacg atttgtaaag agatccacag 240
 ggggtcttcac ccctttcagc cacattgccc ctaatgggct tctaagttac ctagaatcct 300
 acattgacta atgctataac taatagcctt aacctatcaa catacaactc acaaaacatg 360
 aagtcaccta tc 372

<210> 36032
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 36032

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 gagctttgtg gtccctcctgt aacaaaaaat tgcacagaca aggaagagtt gacagagagt 180
 gcttctgttg gacacggtga tggtaatttc tttggaacat cagagtttga tatcggtatg 240
 ggagttggat ttgcagcagg attttggggg ttttgtagtg ttgttttctt caacagaact 300
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<210> 36033
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36033

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 ataggggaatt tgagtgtgac aatctggaaa ccatattatt ttaaaaaaaaa atgttaaaat 180
 taggtttaat tattcatttg gtcattatag ttgcaataac tcttcatttt agttcctata 240
 gtttaaaaca tctcatataa ttgtcatctt tttctctttt catcttcatt gtctaaagtc 300
 acctaacggt gtttgagatg aacattacaa gacttatcat tgtcaaagtg tcaccttggg 360

ttcaaggtaa cattnttgac atggcaagaa cttgtattta ttgaacaaag ccaagaatga 420
gtattgctca gcacccacg agt 443

<210> 36034
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36034

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cagttataac aagcactgtt gcaggccctt tcttcacggc taatgtacta acaagtgtta 120
aagttctact gtcgccatta acaggtgatt ttatcattaa tctacatctt attcgttcat 180
acacattgaa atgacttatt ttagttaggt aactaccatc ttagctaact tcgtccccag 240
agaaaagaaa gtgttatcta ttagtatgtc tatgtatgtg ttagaaatga aagctatatt 300
actaaatgtt atataagtgt atcaacatta agtattttat ntcaataact tctattcaat 360
tcatgaattt gtgaacttcg gtactatctc ttatgccaaag ttcccncaat atattgtacc 420
tctatgcttc taagtgcac 440

<210> 36035
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36035

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agtcactggg aatcgattac cattaagggtg taatcgatta cacatcaaca aatgtgactc 180
ttcattttga attttgaaaa ttaaaacatt tagaagctct ggtaatcgat tacaagtatt 240
gtgtaatcga ttacacaagt ttaaaatact ttaaaactat ttaaacataa gttgtaactc 300
ttgaaatgtg aaatcttaac atttttaaac attggtaatc gattactacc ttctagtaat 360
cgattaccag agagataaac tctctggtaa tgattntgtg aaaacttctt gtgcttactc 420
aatgtttgaa aac 433

gctcagaaat ctaccctgag gatcatgaga accctagggc catctttagt agctctagcc 360
 caatcctctt ggatccttct atccaataacc cttg 394

<210> 36041
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36041

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 taggaagnnc aaaagccccg ctttttgtca taccaccccc aagagatctg ttaatgggtcc 120
 aaccgccta acgtttctct cctttcaaaa aacaagagat cgттаатггг ccaacgcctt 180
 aacgtttctc tcctttcaaa atcaaaagat cgtttaatgg tccaacacct tanatgatct 240
 tttgttcagt caaaatatat cttgcaaaca aagatatata caacttcaac cacgcttagt 300
 tctcaaagaa ctacataggt ttgatt 326

<210> 36042
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 36042

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 acgggatgag actctccaac acgccattac ggaattgacc catgcgatgc gtgagcctaa 120
 cctggcaagt gtgtaaaact gacaaagctc aaaaatcgct tattgaactg gctattcgcg 180
 gcataccggc attctcagaa ggtgccagat gcaacttgca attacgtttt acaacctcgc 240
 accggataga cgcgatccac c 261

<210> 36043
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 36043

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atggactgtc cgaactctgt agaagacagt cggcttgtag ctgctctccc tccccccact 120
 caccgatgag atgtgacgac accagtggat tatcacgccc gattagattc tggggactac 180
 gaccaagga tgggctctct taagctcgac tatgcttgcg actggtagct aggtg 235

<210> 36044
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 36044

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 acccacgtca tcaactatatt tgctaaatgc aagctttctc cacattcaag aatgtcatca 120
 tcactaccaa ggtgtctctt caacaatgat aagccagata cgtacatctc agacaacatt 180
 taacgacctt taatgaggat aattatgtgt gtgcatgtgt gtgcgtgtgt 230

<210> 36045
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36045

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 tctgtgtagc acaacactcg gagttctacg tggataggaa cacctcactg gcaacccaac 180
 tgagctgctt agagacaaaa tatgcgctac gtgagatggt taagtatggt gccgtgacat 240
 gtcacaattt gggctcttgca tctatatcta aaaaaacccg tgttcactta catctccact 300
 ctcgtttgtg aactaactat gtggggaata atgttacttt cattgattct gtaaaactga 360
 tgtaattatc ttttcacctc gactttcaga accgcacttt gaggttgaaa ctcgttatatt 420
 aaacaacgctc ggc 433

<210> 36046
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 36046

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caaaggtaga	agtgatccag	atgcctacct	ggactgggaa	atgaagactg	agcacatatt	180
ttcctgcaat	gactacactg	atgcgagaaa	agtcaagcta	gcagcagctg	aattctccga	240
ctatgccctt	gtttggtggc	ataaatacca	aagagaaatg	ttgagagagg	aacggcgaga	300
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taacagaacc	atgcgacag					379

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<211>      426
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      36047
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<210>      36048
<211>      236
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      36048
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<210> 36049
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36049

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acgattatcg tctccctttc cattattggg ggtaccacct gngccgccag atccctccac 120
cttttgggcy tggtctttga atgatccgtc cccctttttg cacatgttct gtagttgcat 180
cctatccgga accatatcaa aattgtactg atactgccta acaaaggcaa ccattatgtt 240
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aagactttct tggaaggaat gtatcagcaa ttctctatct tttgcgtatt ccccatctt 360
ctgacaatac atctttagat gggtcttgag acaagtaatc cccttgta 408

<210> 36050
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36050

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ataactgnga aattgtatca attattcttg ttgaagcaca cctcttataa tattagtgtg 120
tgagccctgt aacctgtgaa ttgttgcata cacataacga gatttgtgca ttggtcacca 180
tttttttaat tcttgcatg taagcctaca cgggtctttg aagcagttta aaattctcat 240
gcttttcac atctgttttag aaaataatct gaatgatgag taagatacat tgtttgaagt 300
gtcttactag cctacaaaga gagaaaaaat agtgaatttt gtttgcacgc agtattttat 360
ttcttattag agacaaataa atatatacac acacacagac agagaaagat gtata 415

<210> 36051
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36051

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ctcagaggct tgaagagtgt gaatttcaga tagcgtagag tagagcaagg ggccaagtgt 180
tcattctttt gggagattag tgagttttta agtgattgtg agattcctag aggtggaggg 240
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ggagcttctt tgccatgaaa ggctaanacc ctcaagttggg gattcttatt gagtagtnga 360
tgtaaactct ttttcatatc taattaaggt tattntatgt ggctactact tctatctatg 420
cttattgtat gcatactt 438

<210> 36052
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36052

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cagaatcacc agcaatagaa tactcacaat gctcaaaatg ctcaaatgc tcaaaatgca 180
cagaatgatc aggatgcaca ctatgcctaa ctaatctatg aaaggttcta tctatttcan 240
gatcaaaggg ttgtaaatca cttggattgc cctagtcac gactatgatg cagcaaataa 300
tgtgtttctc aacaagcact atgggagggg taaaactaca actatagtca aatgatatcc 360
aatgaactg aaattttgtg agcaacaccc tcaaatca 398

<210> 36053
<211> 272
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36053

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 acaaaaccta caagaatccc ttcaaattggc actcaagtac caactatcaa cacaacacat 180
 taatgttctc agtccttagc tgttgagaaa tatgctcact gatttgactt tacctgatta 240
 caactcaggc ctaatatattc atgattaataa at 272

<210> 36054
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36054

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 cggcaacggt tgtgtttttt tgcaacaaag gagcttgggg gtttcccccc aacaagggga 120
 taaaaactta cttgagaagt caatatcgat ctcaaccgca gggaaaaggg gaggaacctc 180
 catttgaaaa tgagttcaaa atgggcatgc aagacggggg tctaccatcc tttgccccca 240
 aaacacagcg tagttcttaa aaaacacttg cagacaaaaa cccgcctggg cacgggaagc 300
 ccttatacct ctaaacadat aggcctgtgga taatcctgtt atggaaactc aacagcgg 358

<210> 36055
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 36055

tatgtcgtgt gggtcaggag accttgtgga cgtcagggtg tgtgctattt cccaaaacca 60
 atcttgacca atcccgaccc aaccaggca tagtcgggtca gtgagaacct gtgatgtacc 120
 taaacatgcg agtcctggc agtcaacaga ttaaaggaac atagaccaca aagcattgat 180
 gcttgtgtgt gggctggcca actgtgaatc ttgtgtgata tatgggttat ggcctctggt 240
 aatcgattac caagggtggg ttatcgatta caatgcttaa caatgaagac aagaggctta 300
 aatggtctct gggtat 316

<210> 36056
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36056

cggaggcaaa ananaagggtt gagaccttga aaatctagtc annacggnac cnatacaana 60
ataagcgaag tcaggggcag ccatcgcgcc taagagtcct tctcagang tggattttga 120
gccatgttct cagtatgaag attagcagcc aaatgctcat catcagaatg ttcacaatca 180
ctatcaacag aatgcacaga atgctcataa taataaggat gcacactatg cctaactatc 240
tatgaaaggt ctatctattt cagatcaaag ggttctaaat cacctgaatt ttccttagtc 300
atccactata tgcagcanat catgtatttc tcaaacaagc accagggtaa aaaggggata 360
aaacttcaac tataactcaaa cgacattcca atgagcttga tatttgtgag aaacacccta 420
caatcatgaa aagatagcac aaatattttc aagaaaaatt ctatgtttac tatgaaactg 480
gctatgaaat ttataaaaata aaacataact 509

<210> 36057
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36057

cttgagacgc atgtgatcct ttggcatcat catatcatca gcttattcct tngnctacaa 60
tctcccgtt tgtgatgatg acaatccctg aaatcaagac aagctatata caagatgata 120
gcacgttcac acaaccctta ctccccctat cttttgccat gtatgcctaa tgataaattt 180
ctaattgata tctaaccctaa gtcccaagtt ctctcaagtt ctctccccct ttggcaacat 240
caaaaagaac taagcaacac aatctaaatc caaacagagc aaaacaataa accataataa 300
atccagacat tgtcataacc aaccaaataa aagtcaagag acataatata agtgcaagat 360
tacgataact aagcaataat aagccaaata cacggccgat aaccaaagta ctaataatcc 420
ttaattacca gtaata 436

<210> 36058
<211> 198
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 36058

tagggatgga acacttactt gttggtgatg aacttaagcg cataacttaa tcaaaaaatg 60

cgaanaagga tgaccctatg gctgcaaact cgtcaatccc gtgggtatgg cttttgaaag 120

gggggaaaag aagtttttga atgcaaaaac gtccccctt tcgtcattct tataatttgg 180

tgcaggggtg gctcgccc 198

<210> 36059

<211> 423

<212> DNA

<213> Glycine max

<400> 36059

atagaaactc agctttgctg caatatttac aatagacctc ctactctca gctgtataat 60

caaccacagc atagcagtta tgacctttcc agcaacagat acagccctgg atggatgaac 120

caccctaacc tcagatggtc cagccctcag caacaacaac agcagcctgc tccttccttc 180

caaaatgctg ctggcccaag cagaccatac attcctccac caatccaaca acagcaacaa 240

ccccagatac agccaacagt tgaggccctt ccacaacctt ccctcgaaga acttgtgagg 300

caaatgacta tgcagaacat gcagtttcag caagagacca gagcctccat tcagagctta 360

accaatcaga tgggacaatt agctacccaa ttgaatcaac aatagtccca gaattctgac 420

aag 423

<210> 36060

<211> 173

<212> DNA

<213> Glycine max

<400> 36060

attgctccta gacgaggatt ctcatTTTTA aatattgtag gttaattacg ttattaccgg 60

gtccatgaac ttccgaggtc gatccttcat tgattgccct ttgtatgctg acgacataat 120

gctatggaat tttttcgat gcttttgctt tttgatgcag gatttaatca cta 173

<210> 36061

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 36061

gcttataacg cgtctgggag acaaagtcac tctttccgta tgctaggatg atattccgag 60
 tactttggat ttggtacgac catgccctcc tgatttccag ctgggaaatt ggcgagtgga 120
 ggaacgcccc ggcatttacg caacgagcat aatgtaaacc ttacgggtt taaaagctct 180
 atagttgggc ctaggcttta gagttntttt ccttctgtta atgctatgtg tcttctgggt 240
 ttgaatttat aatacaagga tctttcttca tctgttctg gtctctaccc attctcattc 300
 atttgcattg ttacttcttt ttctgaaacg gcagatccga tgacgagtcc cccgaaggta 360
 ctaatacctg ngacccgcct atcgacttcg agcgagaaat gaatcaaacg gaagatgaat 420
 gagatgagga t 431

<210> 36062
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 36062

tagccaattc tactgcctgg ggcagagtat ttggtctttg ttctggactt cgcgatggag 60
 ctctggattc aggccatata caaagccctt gacaatctcc attgataggc aactaaatac 120
 atgcaactgg aggagctcac caagtacaac cggcagttga ggaatgaagc atccgactca 180
 aagaaggagt tagaaaggga tgcccaataa ggaaaaagaa catgcacgca agactagagg 240
 acctttctac aactattaca ctccccttaa tgatagccaa tcaaggatct tggaacaagc 300
 ccttgctact gaatttttca tgatgccaaa gcaggctaac cccccctaag agccaaccac 360
 tcaaagcatt ttgatacca tacgaattgt ggatcttcct cagaagaatg cataacacat 420
 aaatacaaga ttaatgatct a 441

<210> 36063
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36063

tataagaaca aaattgccta aatcatgctt ctaatatgca tctgatttan gaagcatcaa 60

atgttctact ccaaaaaaac

440

<210> 36068
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36068

ggggagtnnn nannagaact gaggcttgaa ngctnngcan nacgagacac nanacangaa 60
tggatcggnn cgctgcaacg agagagggca nacaagacat cgatatctct gtcttgnnna 120
gnnaaaagga gnaaagaggg gagaggaatg angacnaatc tacacagccg gctagggaaa 180
gacaatgact gacggatata agttcaagca atagaattga ctgctactcc tgtttctcaa 240
tataaaagat agagagcttc actccttgac gatgtgatga ctaatcactc tctaacttca 300
gaaggaaagt agaagtggcc cctagatatt atgaaaagaa aacacaagca agggatcaat 360
taacaactaa gccaaacagt acaggatggc tacatacgcc gcccaaataca tttttagctc 420
tgaaacagaa tcatggcatg ttntgaacat tatgaactac acatanaaga aacagcacia 480
atcggttgct gccatggacc gggaaaaaag 510

<210> 36069
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36069

tgtgnataaag nnggagaatg cacaaaagaa tattgtactn ctctctaagn gagaaaccct 60
aagtgcagat atatatagca acctattatc tgcattctaa accataaaat tttaatgagc 120
attgcattat caagagtcaa atgctgaatt tcaagggcaa actaggtgaa tacctgacct 180
ccacactata aaccttgcat taattctgac taacagataa tctaaatgac cacaaatatg 240
gcattgtaag gacaaagtat agtcacacca ataacagacc atcgatcttt caccaaaatc 300
tatgtgttca agcattctag atatccacca gtaaagttaa aaatgaacaa ctatgagttt 360
gacgtgaaac tgattcgcca ttggaggttt atttca 396

<210> 36070

<211> 447
 <212> DNA
 <213> Glycine max

<400> 36070

tctacttatg tttgtgagct tcatgtaatt acttctgcaa ttctcatgtg gcaccactac 60
 tttgtgggtc atcctttcat catcctgact gatcaccaaa gcttgaagga cttaatgacc 120
 caagtcattc aaacaccgga acaacaagtc tatctttcaa agctactcgg gtatgattat 180
 accattcaat ataaatcagg gtcttccaat atgggttgcaa atgctttatt aaggataccg 240
 gcaacaccga ccttgtaact attactctcc atccccaatt ctctttttat ggaacaattt 300
 cgtcaagcat gtcaggcgaa ttctcatat caggaacttt tccaccagat acatctgcac 360
 cccgaagctc accccagctt cactattaa taggacctcc ttttcttcaa tgataagatt 420
 tggttcctt ccagccatga tttcact 447

<210> 36071
 <211> 279
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36071

gccgagatag gatcgaaagc cctgctggca atccttgatt cagaagtntc aggggtgctg 60
 cgaatgcctt gttggaagg ttgaagtcac ctgaaggaat gaagaggctg tggaacataa 120
 tcaagcatgg gtgatgtgtg ggcgcgacta gggttgaata aaaacctata ggcactgagg 180
 ttcaaaaaga agctagagga aaggtttcag cgcgaaaggg caagatctac ttcaccaat 240
 agctgctaac actagggtta gaagctacaa ccaatgttt 279

<210> 36072
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36072

tactcagctt cgctcttgaa cgggcgctat cctatcctat ttctannnct ttttttgta 60
 anangnctaa gggcgctttt ggcgccttgt cctgtttttt gtccttgctc tatcaaatcc 120

ccttatctag attctcctct aaattctgag cgttttgata tatagtgggc ctcaaagtga 180
 caaccataac aaaagttatg agcatttgaa gtttacttgc cctatctatt gacatatctg 240
 ttatcctatc taatatctta tctgttatcc tatctaatat cttatttgat ttccgatcta 300
 ttatcctatc tattatccta tctaatatct tatttgatat catatctggt acccaaatta 360
 gagctatctg ctatccagat ccaatcta atattattat ccaaatac 407

<210> 36073
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36073

gattcaatct tgaacatctt gaactcattc tttgattctt aagatcatca tctntgttat 60
 catgaattgt tcttgatctt tgagctttnt gtaatcacct ttgttgatcat caaaacttct 120
 ttgaatcaat cttgattcat catgaagctt tcttctacaa ttctctcatc acaattgagg 180
 aatacgtatg agcaagggaa acacccttgt cgaccacaaa aagataaaaa aaacacacaa 240
 agacataaaa aaaaagggaa acaaattgaa gtcataattg cacacttgat taaagactgt 300
 cgtcctctgt gacggacgcg tggggtgcta atacccttcc tattegtaaa ta 352

<210> 36074
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 36074

tcttatccaa ggcactctct tgggtggtgaa gtccttctt cctcggcata ttccctagt 60
 gatggcgctt cctctcacct cttctccttt atcttccgtt gcacttccat ggtggaaaat 120
 caccattgaa ggacctcatt gaagcttaaa aatccagcct ccatagaagc ctcataagca 180
 agcttccatc atgtgctcct taaacctcta ttaacttcca ttgttggtttc ctcatTTTTT 240
 tcttgTTTTt ttgtctaact catttggttca caagtgtatg aaattctttt agcctattaa 300
 ttgatttgag acaaattctt catgttaatt agtccttaac atgtccatgc aaaattctta 360
 gagagtcttt gattgtgaac cttttcttga acttttaggt ttcttatga ttgtgtctat 420
 ggtgaatttg agttttggtc a 441

<210> 36075
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36075

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 ctagagcatg gcagcttgca ctctctgtct gatcaaaatc gcacagagca tatctgggtc 120
 tagtacgttg ccacacctga ggacacagac ttcttgaaca ctttgcacca agagcactct 180
 ctggtatgag cctcgatgta taaactactc acaccacaccc cgtccgaaac tgatttcacc 240
 ttgagccctg acctattatg ttgaggatcc ccgatcttaa gggaagtcc acacagacat 300
 tactgcatc atacctgacg atgtgggtcac gcggcattgt tctctcatg aacagacacc 360
 ggttctaaca ttacacagcg acgagctcga cagccttcta taaaggatgg 410

<210> 36076
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36076

aggaaagaga gatcgatctt gtacgacaat cttcanaccc nnaaanagnn nnnnggcgag 60
 nngagggggg agcgggaggt tganacctag cttctgaaac aanaaaggga cacgggcggc 120
 gcacgagaga ccaccacaca acccacccca ccccgagggc ggggacaagc caccacagaa 180
 cgcagaaggg gcgcgcaaaa gccgcccgcg gnacagcccc atgagccacc ncccagcagg 240
 ggccgcccga accgacaaca acaccattg gagggaccgc aaccataccc gccgcgaagc 300
 acaaccgccc ggtcaccggg agcgagagac caccgcccac acagggaccg accaaacacc 360
 ggccgctgag acagcagaca caccgaccg gacacctaag acggcacgga ccgccacgca 420
 cgcaagacac cgcgtgcccc accagcaacc gacgaggaac gacgcgcgcg cacg 474

<210> 36077
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36077

cttctacgtc tcttccctat aaatagggag caaagggag aatatatacg ttcacccctt 60
 ctggtatctg aggatcactt gaaattagtg aaaaaaatc gtttccgtga agaaaatcca 120
 agccgaggcg cttccgtaac gcgctctgana cggttccgtg ggtgattccg tgaagattnt 180
 ccgccatcta tcgttcgttc ttcacgttc ttcgtcgtcc tgcggtcttc aaccgataag 240
 ttcccgaat cgaacttttc aattcattct atgtaccctt ggtgggtccc acttggttcg 300
 cgtactttta ttttcatttc atttactttc tgtatccctt tttgacgtgc tttagtcatt 360
 tatataagtc attttctcgc ctatatcaaa aataaaataa tattccaccg atcatataaa 420
 ttggtacatt 430

<210> 36078
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 36078
 ttacgtggca gggcgggctt ccttcacttt cttgtctcta acgcatctt tgaccaccgc 60
 tcttccttcc tgcgatgctt ctcttcatat ctgcctgagt gggcttatag cctaaacat 120
 acttcccatg atttcctttg gcatttatca ggctagttat gccgccgttg tctttgccta 180
 aaccattcc gggttcgtaa ccgttcccca acataactcg ggccatcatt actgctgcat 240
 cggacaggca agcttgccca gagaaggagt ccacggagga aatgcttacc acctcaaaag 300
 actggaaagc ggtttctaata gactcctctg cggcctccac ataaggcata gaggatgggc 360
 agctcaccaa gatgtcttct tcgcctgata cgatgaccag atgcccttcc actacgaatt 420
 tcaacttttg gtggagt 437

<210> 36079
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36079

agatactcag cttgcaccag ctgcgccagc gagcttggtg cttctttcat angcaccgcc 60

SECRET

<400> 36080

<210>	36081
<211>	443
<212>	DNA
<213>	Glycine max

gacgactnct	ataatcgaga	aaacggacga	ctttctgagt	ttatttcggc	actatgagca	60
gatgacagtg	tagcagagtc	cgtgagatga	cgttttatag	agtgatcact	gacttttcgaa	120
tgaactacca	ctgaatgtat	cactctacag	atgaggatat	gttagagcaa	gagcctgctt	180
tgatctctaa	agggcaccac	cgattgagtt	gttgaaatat	actatcatgc	ccacatctat	240
tataacgccg	atgtactccg	agacataggg	gagatgtgct	aacaacggac	acgaacgttg	300

agataactcc ctgatgtgga gacttctcca agaacgcgcc acttgtgaat atctggcatt 360
 ataactttta taatccatgg cggagactcc atgctgactc ctctcttgga gtacgcacgc 420
 gctaggcact .cgtgtgtcac gca 443

<210> 36082
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36082

caccatcaca tgggggtaga ttggtgactc tttactgtct tttcctcctt ttttgagagc 60
 ctcaaacatt tctgcaccaa cgtcctccaa gaagaatttc ggcagaacgg accttccaac 120
 tctgaagctc gaagctttga tcccaaagaa gcatgccatg accattatct tcaagcccat 180
 ctcttttccc agcacacaaa caaaagggta tagaagaacc aaaactatgg ctcttataag 240
 cccccctgcc tcaaaggcca cgagcatgaa atatgggaac aaagaagagg atttcaacaa 300
 cgcgttttcg acatcaaaga tcaacgtgtg atcgttgagg tctgatcggt ggattagaga 360
 ggggaatttc anggtattgt taaactgtgt tgttgcaccc gaaaaagaat ggctaattgt 420
 tctgtgg 427

<210> 36083
 <211> 282
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36083

aaatgacatc caaatacggg aagttttaca ttttttttat tggtncttaa agagacaaga 60
 cgttcatggt cttgatatga tcatcagttc tggcagatga ctggatgaac caaatntttt 120
 taattagaaa taatagtcac caactcagca tttgctttga atgattaaga aatcatgcca 180
 catgtagtta ttatacccta agtgttgaca tcaatatcta cttttgactt accggctagg 240
 cattgcataa agccaattca cttaacctac acggattttg tt 282

<210> 36084
 <211> 419
 <212> DNA

<213> Glycine max

<400> 36084

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 atcgtggcta aagttctggc caagaggctg gcccttgtgt tacctcatct tatagatgaa 120
 agacaaacgg attttatgaa ggggaggcac attcttcatg gtgttttgat tgccaatgag 180
 gttatagctg aggctaaggc tagaaataaa ccttgcatgg tcttcaaaga ggattttgaa 240
 aaggcgtatg attcggtttc ttgtggtttt cttgactaca tgttgatgag gatgggcttt 300
 tgtgaaagat ggaggaaatg gattaatggt ttctgtcca ctgcaaccat atccatttta 360
 attaatggaa gtctgttttt ggagatgcc acaacataa tgttagaacc ttaaaatgt 419

<210> 36085

<211> 444

<212> DNA

<213> Glycine max

<400> 36085

ctcaagcttg aagcaacatg ctcgccagg cgagctgttt gctttctcct taagattcct 60
 gatgggccc agataggccc agggctgaag aacactcccc aaattgatca gttcaccct 120
 attttgagtt ttttttggtt tatttccttc caaaacattg cgaaacctta cagatcgac 180
 gacaattggc tttaagcagc tcaatgttac cggaaaaaat ctgcatgtcg acaataatt 240
 ataccggat gaagttagg tatgacagtt gtgtaacacc ctgatata tctatatatt 300
 attagtaatt atgtttgatg ttgattata ttgttgctt ttttttatc cataattatt 360
 ttcaaggagg ttaatttagt taataaagg gtgtgggtag ataaggatct agcttctcaa 420
 agaagcctct tgagaaaact tctc 444

<210> 36086

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36086

catcaaggat ctaagatctt tgttcatcta ataaaatcat gtagcttcat caaggtaagg 60
 agagtctctc caattcttaa accctaactc tngtgtctt ggaagctaac cttcattgaa 120

tgttgttttg atgttcanaa tttcatagct actgcatang ctggaactgt atcatgtgtt 180
 gtttctcttg gtaatttaag gtaaaaaatg agttatttgg gtgccaaaac ttanggttaa 240
 ccttatattt cacctaaatc atagttnctt agtaaaagtt atgaacaaaa caagttaaag 300
 gaatcacgaa aataaatcgg agttttctag taaaagctat gaacaaatca ngagttttta 360
 tggatgtatg gaccatnttt catanatatt tgac 394

<210> 36087
 <211> 284
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36087

gatannnegg gactctccga acctttcttg caatcccnan gangatncgt ttgagttcta 60
 tgtgtcggca cacggcgtag ctgncaacaa cancccccaa cggcccngag acccccacta 120
 cttactata tctctgaaac ccatctgctt aattcaagtg tggatctgct aacgtaaagc 180
 caatcaacct atatagcact acttgctcag ttgatcacta acagaactct aatcaagtcc 240
 tccttgaggaggaggcaatga atgtggcacc cgcgacttaa agcg 284

<210> 36088
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36088

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 ntccacatcc acaaatacag cataaagcca ccatccctg ttgcccacct ccaactgagc 120
 tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc ncatcaatcc 180
 tcccaagctt cccaacatc caggtaattc aaaatccaaa tcatcacaaa ctaacaaacc 240
 aagcaaaata gggcataggc agaaaactct gcccaaaact cataccaaaa tcacagcttt 300
 ttctcactta tagaccccag taacatttcc tccgttccaa ttcgttaacc gttggatcaa 360
 ctggaacatt ttactggaag tctctagtagc ataagcttac attttg 406

<210> 36089
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36089

tttatagaag accttttcac actaaatata catatctttt ataattagta tccaaagatg 60
 tataatagtg attcttacat gataaggtgt gataaatacc tctagaagtg aatcttgtgg 120
 ttgacacttg acgatagtta ttagatattc tgtgataaat catatcttat actttgcaga 180
 tatacgagac tctcttcana ggaattaatt cagaatttag attcctagtg ttgttgcattg 240
 gcgaaataat atattatttc tatttctaag ttttcccaca attactctct ttattttaaa 300
 tatatataga gaa 313

<210> 36090
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 36090

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 cttctgtttt ttcttttgta atatatttca ttcaaagtaa gtaccgtaag tttgtaaata 120
 ttgcatttgg ttgttctaaa cattttgtat ggccatactt ttctgggaga ttctgtgtac 180
 ttcgttacgc atgtgttttt tattgtacat agcgcgatta ttctctgtac atatggatta 240
 agccttggca tgtttggggc atataattca ggacatcctt tctggatcca tataagaaac 300
 tata 304

<210> 36091
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36091

atgattatgg atggctcaca aacaagagtt ctatgncctc natgacgnch nancatgcgt 60
 ggtaatagtg gaatcttaac aagagagaac cacatatgga tttanattct ctagagagta 120
 tatttgtgag agattaagaa ttcatagaga attcttcttt gtagttntgt attcttttct 180

cattaataga gattcttctt tagcatacac tctctacgtc aaatacaatt tgtcacaaca 240
 agaatggtgg ttgtgccata taatacttat gcttcgtagt ggattttctt acttaaggaa 300
 catgtgaaag tgcagtcatg acattctcgt tgtgacttga atttgagaac aaagatg 357

<210> 36092
 <211> 205
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36092

agggggaccc atcccntgaa ccccnatag agtacacttt ttccccgcgg gtgaagtccc 60
 tacagctagg actttctaca aaacacaggc agcggttccg cagagggagc taaaaaatgc 120
 atgtgaagaa cgaagccaca tacaaggag cagagaacct catcacacgc aaagccgacc 180
 aattaatcaa agccaaggaa ttctc 205

<210> 36093
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36093

tntcgaggaa gtnntctcag gaaagctgct cggtgttgct actctantct ataaatagaa 60
 acatgtgaaa cacttgtggt aactatgacg aatganagtc ttgtgagaca catctcagag 120
 ttcaacttct ctcccttttt ctctccttca atttcgtgcc cccctctctc tttctctacc 180
 tctatctttt cctccataga agcatcctct ccaagcttct tatccaaggc tcatcttggt 240
 ggtgaagctc cttgtctcat ggcttatacc ttaacggatg gcacctctc tcacctcttt 300
 ttctttgtct tccgctgcat ctccatggtg gaaaatcacc attaaaggac cccattgaag 360
 ctcaaagatc catcctgcat agaagcccca cacgctagct ttcatcacat actgtggat 419

<210> 36094
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 36094

<210> 36097
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 36097

acatgtggta cgatcgtgta attaatagaaa tcgctacaaa atgtaagtgt tgctatcaag 60
 actttgcttc ataatagagcc gaacagagct aagctgcacc tggtagagaa ctttctgagt 120
 aaggtttgaa tctaccttat aatagtttag ttcattctatt tggcagttgc acattaataa 180
 ttaatggatt atataaagcc cataaagttg cacattgata attaacggat tatataaagc 240
 ccataacttc tctgatagtt acctaatgac gtctctcttg tcaaaagtct gctctacctc 300
 tagaaattat cttttactat catggtattg atatggccac aaactacgac tatcatatct 360
 aaa 363

<210> 36098
 <211> 518
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36098

cggagtgaggga annagagggg gangcttgac tgcatacttc gtcannacgc gnaananang 60
 atactnaagc cgagctntca ctgcgacana cccagcgctc ttacatactt ancttctatt 120
 aaaaaanaaa agagagcgtg acatggggat atgagcatnn cattggctcct tgtttgcttc 180
 atttcgcact ttggctttat gcctcgtgtg atggcagaaa agaataacat gggacaaaat 240
 tgttgatgtg gtgaccgggt gagaaagtaa cccgtggaat tgctgctttg gacaattttg 300
 tctggttcgt gttaaacaag gaaaccatga atgaatgaat gaaattacac ttacatttgc 360
 tagactttgt ctttggtgta cctttattac gtgtcaccac cccaacccat cacatttctca 420
 caccaccatc tctccttggc gcttttttat atattacggg ggtccaaatt caatatcatt 480
 gcccatatcat gcaaaccaaa tattaataag ttatattn 518

<210> 36099
 <211> 254
 <212> DNA

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<223>      unsure at all n locations
<400>      36099
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tgcaagtgcg	cttcaaaagc	gataggaaaa	agatatccc	gatcaaagat	cggaagaaag	60
aaaagaaaat	ccccatcca	agattggaag	aaaacaaaag	aatatacag	aaaggtcttt	120
ggaccagaca	atatctgaat	aacatgcaga	attgtcaca	acaagaaaag	gaaagaaagg	180
aaactanggc	tcgcgacaca	tgaagtggtc	ccctttttta	ttaccaacca	aaatcctttg	240
tgtcggcaac	tctt					254

<210>	36100
<211>	387
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      36100
```

agctacctag	tctatagaga	agccgcggac	tcttgttgta	tctnngaaga	acgaaagtct	60
tatgagatac	acttcatagt	tccacttctt	ttctttcttt	attccttcaa	tttcgtgctc	120
ccgccttctc	tctatctttt	cctccattaa	agcatcctct	tcaagcttct	tatccaaggg	180
aattcttggg	ggatgaagctc	cttcttccct	ggcttattgc	ctagtggatg	gtgcctcccc	240
tatcctcttc	tactttgoot	tccgctgcat	ctccatgggtg	aaaaatcacc	attgaaggac	300
ctcattgaag	ctcaaagatc	cagcctccgt	agaagctcca	caagcaagct	ctcatcaagt	360
ggtaatcaca	gcacaagagc	ttcaagg				387

<210>	36101
<211>	406
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      36101
```

tgagggaaaa	gatctgatac	tgttgaccgc	anttngacaa	atcnncaagn	nncngnngnc	60
aaccgggaaa	agaatgttct	ttctcttttc	cnnncctng	gcaaaagtat	gcgccaggac	120
taccccccta	attcttttgg	gtcactttt	cctttcccaa	aaacaaggct	accgctgaa	180
ttctttgggg	ctccctctcc	ctggcaaaga	ttcaaacgac	acagccgaga	attctttgat	240

ctttctttcc ctatcaaaga ttcaaggact atcaccgaga atcttttgat ccttcacaag 300
 ttcaaggaca ctgccgaaac ttgcttacca tggaggacat cttgggtcag agagggcatt 360
 ctgggtgtgg atgaacaaaa ggacactctg gacttgtgta agatag 406

<210> 36102
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36102

aaaacggttg cgctgagctg acctgaaatc aacttgcnegc gattggcttc ctgccaatga 60
 tcaaggggtc ttnataatta tacnganaac acgcgtgata attcaaaaaa aaattggcag 120
 tgagaggtga aatgaggaaa accatccgtg atgcattcta tcttcaattt ccaccaccca 180
 catgctttct cagccataca acttctctta ccacaccatt atcacaaggc ctcctaataca 240
 cccaagctgt taccgccttt catgcgacac acctttgcc acaaaccac ccgaaatgat 300
 ttgcgtgaaa aaacctgtaa atacctgcta gttcttacct attttcgaga tcatcaacca 360
 tgggcttttt ggaacccggc ttcattg 386

<210> 36103
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36103

agaaaggtnn naagaggctg atgcttgata gcttgtnat cnanccnttg ccnactgggc 60
 atctatacgc tnnagagac ttggatgctc ctaagcaatt atctctccac agagaaggag 120
 ctattagcga tagtttttgc tcttgagaca tttcgttcat atttacttgg tacttgtgtt 180
 attgtttata ttgaccatgc agctctgaag tacctgttga agaaggctga atcaaagcct 240
 atattgatca gatggatgct gtggctccaa gagtttgatt tggatatctg tgatcgaagt 300
 ggtgcacata acctcgtggc tgaccacctg agtaggattg agcatgcgtt tgaggactca 360
 cccattcggg atgttttttt gaatgaccat ttgtacattt tgtatattat ttctaattcc 420
 ttccccactc cttggtttgc taatattgtg aattacttgg gtggttctat tttgccttcc 480

ttaatatcta aagctcaaat gatt

504

<210> 36104
<211> 508
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36104

ggggnaaagg gtggatgac ttgtacacga canacaaaaa aaagccgggg gacaaaccna 60
ggaatagaga gaggggagag gctccngtng ttacatnnga aagagaaaga ggggggagag 120
gggcgacaaa gatccaccac tcaacacccg aaagaccccc ggaagaccgc acacagccgg 180
ccacagggga caacacgagc agagcatgac aacaacaagc tctccaagac caaggggaaa 240
cactgcgcgt ggggcagaag cacagcaaga cacggcgtat gacctgaggg agggcgccaa 300
acacagacag agagacagag aaacacgcgg cacctccaag gagacaaaac aacaccagag 360
gacgctcata gcacggaaaa gacccctgca acagtatgag ccacaagcga cagccaccac 420
aaggaggtgc aacgaccaca acaacaaaaa gaaggggacc cctagacaac gcagaataac 480
attacttacc ccaaagatca gacgaagg 508

<210> 36105
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36105

ntatgatgtt caacagagac tatgttgaca taattgaaga ttgttcttgt tgctcctaata 60
gcctgatcgt tatgaattgt aatctcacat tagagtcttc tatctttgta gtataattat 120
gactcatctt ttgacgcac aaattaaatn taaatatgta tctgacatag ttgccattaa 180
tcgtatttta agtaagttat ctatctttgt acgtttcttt aatgtagtgg cacgatgacc 240
aagttatcta tctttaatta gtgttactta gtttataatt aattattact taacgcacat 300
aggccaaatc taattctata tattaatttt aggtcaagat caatcttatt ttaagtaact 360
taactatctt tctatgtgtc taatgtgga 389

<210> 36106
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36106

ngggaggcgg antagaggct gatgcttggt anacttgcan nattgagnan aatagcnnag 60
 cggagcngga ctaaagccgc gacacgaagc agaaaggact tcgttnattc ttcaaagcag 120
 cacacncacg ggagaatttg tggagccctg agtaaacgac tcttaaactg agccaaagat 180
 tgatctctaa gcaccagggtg tgcttgtaga gagactgcgt tatcattaat aggtgcacac 240
 cgaagcaatt atggcgggta ccttccattg acagctctaa agggagacat accagtgcta 300
 ctatggcaag caaagctata ccaataactca tcccagtgtc atagctcgac acattccttg 360
 gggtttgcca aagcgaaccc tctgagactc atttccagcg tatgttgagt gcctccaatt 420
 gaccatctgc gtgtgggtgg ccagctgttg actcgggcac agagtaccac ctatgttcgc 480
 attagttgcy aaacgcaccg gaaacacctc g 511

<210> 36107
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 36107

aggtgacgtg cgtgcacata atgccgcaaa caggagaagt gtggtttcca agccggaaga 60
 tgaacacggg ccggaagcca aaacgcaaag gcaagacggc cagacaccgc gagcactacg 120
 caaccgaccc gctaaggcag agggcctggg cccgccaagc acatacgccc agaagcaccg 180
 gaccgggacc cggaacccca gtccattgca gggcagaggg gggagaagca ggccac 236

<210> 36108
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36108

aggaagggcg ggtgcggcct ggacccttng atcgattgca tngtcacanc cnaagcnnng 60
 cctanactga tgaaggatga ttctgcgcac tctgcagcgc ttactgang tcgtcttaag 120

agaagcangg ggagccaana ggagggggta ggagaaagtg gcggaagcac tactcagaac 180
 atggaacagc actgctctng tgagagaatc aactcacca gagatganat aggcgctca 240
 ggggaacgcc acacccaac acagagcacg cgatagacca gtgcaattac gttcgaaggc 300
 agcccaccta atactcggga gaaccacggc caagggaacc cgccccgccg ccacaaaaag 360
 gcgtcaaac cccagacca ctaagaatcg gggcacaacc ggagaaagaa cggacaccgg 420
 gagaagaacc acgcctcgtc acaacagcgg ggggataaga caagcccact ggaacgccgt 480
 aggggcttcc ctaccagaga cgggcc 506

<210> 36109
 <211> 108
 <212> DNA
 <213> Glycine max

<400> 36109
 gatactgtgc gcgctatgcg atgagagtgt agccctatta tcccatagtt ttatgtcaac 60
 ccggatggga atgagagatc ccgaagatat aacgcacggg tgctcttc 108

<210> 36110
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36110

ngcttngtgg gcttctatgg aggctgggtc tttgatcttc ttttgtgtcc tttaatggtg 60
 aatttccacc atggagatgc agcgggaagac aaaggagaag aggtgagagg aggcgccatc 120
 cactatggaa taagccatgg aagaatgagc ttcaccacca agtgagcctt aaataataag 180
 cttggaagga tgcttcaatg gaggaaaaga aagagggaga gaaagagaga gggggggagc 240
 acgatattga atgataaaag agggagagaa gtggaacttt gaagtatgtc tcacaagact 300
 ctcattcatc aaagttacaa caagtgttac acatgcttct atatatagac tangtagctt 360
 ccttgatagc tttcttgaga ataacttctt gagaagct 398

<210> 36111
 <211> 337
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 36111

atgttctatg cttcttgagg tgtcagncca tgatttatct ccttgga aaa gacatcttta 60
 aattcctgca ataaggggtg aactagaga acataatagt aactgataga atatcactct 120
 ctctcttttg tgtatcactc ttttcctcgg gtgtatcact cttctttttc atattccttt 180
 gtggagcctc actattttct ttcgcttggt ctctctnttc tctcattctg atttggatcat 240
 cacacacttc tctaggggat agagggttaa gataaacgag gaagatttga ctattcgtct 300
 gtagggctct tctttgttac gattcaacaa acgttgc 337

<210> 36112
 <211> 494
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36112

aagaacgann aaggagttaa gtctgtantc ttgcannacc anaaaaagcc nnaagnccag 60
 agaagccact gagagnagc aaccgcattt acncctttta tgacnanggc ancannncng 120
 gcgctggacn gcngagaaga ngaaaccnc nnnncnaana aaanncnagc cccaacaaga 180
 gacangncnc ccaaggcccc accacnggcc acaacnatca aacgncnccc caaaaaaccg 240
 agnccttcaa aaaaaaangg aagaagaacc gccccgaaac cgagggcgag ggcaaccggc 300
 gcaaagnnnn naaaacgccc caagactcan acggcncctc cactgagtng ctaatacctg 360
 agatatccat cctgatggct gtggtcctgn aagcaggcaa aaatttntct aagaatactc 420
 tctttaggtc atcccacctc gtgatggacc tttgaacaag gatataccac cagttccttg 480
 gcacatcctc taag 494

<210> 36113
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36113

ggaggatgat ccctgaatga ctngaacnac cnaaacnaa gcnn gatagg agaaaggnc 60

ctanaggcac ggcgancangaa cgacttccca tgtttactta tggcaagcag naggggaanng 120
aagagtggga gaaaggcgac acaaacagga gccagaacg ggcacaaaa tcaattggca 180
aaaacaagca ggcaccccaa cctaaagccg acttacatac ctctaaataa gatctgctcg 240
acatgtccac cacacactag cacctgcatt tgccacacat gttaatgggtg gaaagggtgag 300
gtgagtcac acaaaacctc acgtgctcta taaaaggcaa ggggacaaga acaatgaacc 360
tgctgtcata agcaagtga acagacaaga cacatcacc acagtgatgg tcaactctct 420
cggagataag gggaagatag aagcctacgc ccgccccact cagaaaagcc tccccaccc 480
n 481

<210> 36114
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36114

aaaaaaaaag agatgagctg antctgacac aaaactagcn ngacgcgcac atngaacgtc 60
agccggaact ttatacttgc taccaccata gccggagaac ttgtcataac atgacacttc 120
actggatttc aacctcgat ttatttggtt gaacaattac aacacaggca ggtgacaccc 180
gagccgcaca tgcttaacta acacatcgcc aatgtgtttg caccacaagc tggggatgag 240
agggtcgccc cacaatcatt tgatcagtgg ccataagac aggtgcgcca actttacata 300
taatcaattt ctagaaatct gagacgcact gaca 334

<210> 36115
<211> 515
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36115

ggaggggggg gggaacgtac ctcgttagct gaactgcaaa cnaagcagcc taacggagat 60
gangantngg cgcgcgangc aggggggttc aanagtgtg ctcaaagaaa aggcaggang 120
gggcganaca ggagcgggan acagaagaag acacgcacnc cccacgacca ccngagaaaa 180
ggaaacaacg aaggggccca ggagagaaga gcacaganca ccngagacaa gnacgccaag 240

caccncaggg ggggncggca aaaaccanca naagaaacca caccgcgaca caacaggaag 300
 ccgacgccgc caacgcgcca gccaaaagag gaanaccgac gagcaaggga gacaccccgg 360
 cngaccacac agaagggaaa caaaacccac acggcccaga gaaagaggac acaagcggag 420
 cacaagcgcc cgggaaaaaa cagcgcccna ggaagacgcn gggggagaaa cacaccgcca 480
 gnaaacacca ccggaaaacc aagagaagga gggcg 515

<210> 36116
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36116

nagaagcgaa catgatacga aaccaaaaag ncnagccag agagcaagac gggaaaagag 60
 gtcaacctca ganaggaaca aagggacggg agccaaaacc cacacacca caaaggnaag 120
 caagagacaa cacaccaagg gccccacaaa cacaacagga ggggaaagaa cagacaaggg 180
 aaaagagaga gacaggccga aggaagcaac aaaaccgagg gagacaacaa caaaccaaga 240
 gcgaaggaag agagaaaaac aagacacaac ggagcgcagg gagaaccaa aacacccaaa 300
 aaccgcaggg aaaaaaggag ggccaaggca ggaaaccccg ccaacaaccc caa 353

<210> 36117
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36117

taggcacaag tgagaggaga gggtagtgt gtgttataga gttatatttt gcatganaga 60
 caagtttcgt aaggcacgtg tctattatga tggttntcan aagcccgtct ttgtagtcac 120
 tctccaatga tgatnntttg aataactgtc cttaaactca caattccatg acagttattt 180
 gaaaatcgtc ttcgttgta attcatctaa ttacaagatt gtctccatgt tatctataat 240
 gatgatgtct gataaccatc gttgatggcg tgctgtaaaa aatattntnt ggagtagtct 300
 ttactttnt ccaatctcca ttntttctta taatttttac tatttcaatc cctacttctt 360
 attattatcg aaattactac canagttatt atcaaaattt ccattagaat tggtattaaa 420

ctactattaa aattatcatt a

441

<210> 36118
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36118

nctcatccaa ggctcatctt ggtggagaag ctctttcttc ctggtntnan ccnnnaagga 60
tggcgcctcc gctcacctct tttcctttat cttccgctgc atctccatgg tggaaaatca 120
ccattaaagg accccattga agtcaaaga tccagcctcc atagaagccc cacaagcaag 180
cttccatcaa gtggaatca gagcacaaga gttcaagta ggtgctcctt atacctccat 240
taattntttg ctttaccttc tcttccattg ctgtttcttc atttctctcc atgtatctcc 300
tcacatgtct tgtgataaat gtttttaaca tgattcttta gagtttccac cgattaaact 360
tgctatagaa gctagatttg atnttctatg gttcacattt cttgttcttg gtc 413

<210> 36119
<211> 506
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36119

aganaagaaa aagagcgcga atctgtagta cttgtagaca cnacntatan anacacagcc 60
caccncnggn gnagcgaacg agagaagtta ttatnacctc aatgnncccn gnagnaagca 120
acaangagcc atcagcgaac gggaccatga ccacggagga agccnnanca agacaacaaa 180
cacaangang gcatgtaaaa agacacagca gacaaggggg achnacangac naaagaagaa 240
agaccaacca gagacaccaa cacacncaac gctctctatt aaaaaaacia acaccggcca 300
taaaaaaata atggcgagca atcagcgcg gatgtaggat gcaaacttgt ggccaatgag 360
ggagcagcga atcaggcatc acttaccat tgaggggcac gtacacagga tgggaatact 420
cccctttggc tcacacattt agttattcga gaaaaaagga ttgcatgatg cataaggctg 480
gaacggccaa accatacgca caaccg 506


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<223>    unsure at all n locations
<400>    36120
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cttataattn	tcatatgata	ataaacttct	acaaaaatgt	acctagatcc	ataatatcc	60
acaatgcaaa	gaatttaaga	ataaaacttc	ctaaattctt	taataaagat	tctcacacac	120
acattatata	cacatacaca	tagagtatga	ttattatgtg	aatgacaatc	ttatatgaga	180
atgagaatag	ttaatttcaa	tcattggatt	gaaatgaaag	atttagatta	aaaatatttt	240
aaattcaaat	tanaacctca	tgtaatcata	aaatctctaa	gaaattaatc	aaatatctaa	300
tttatcacgt	ccaaatatat	cttanaccta	tcatcaccat	tatgatcatc	agtccaccac	360
catcgccatg	accgttgtat	gtcaccacca	acatgattgc	gacagtggca	gcaacaacga	420
ttatagtcat	tgtg					434

<210>	36121
<211>	506
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      36121
```

gggggggagg	aaggagatga	ggcttcgant	ctgttgatca	gacanatcct	agaaangtag	60
cnngagacaa	taggcgggga	gaggttcctg	ccttcttttt	gaacngcac	aggaggattt	120
gcagggggaa	ccaagcatat	catccccttc	actaatatta	tgaagctttg	tgaatcatat	180
gttacattaa	catgcattta	aattgataaa	tatgatgaag	aataatggaa	cgaatgcgaa	240
acgcatataa	gacaaataat	attgctctgg	tgataagaac	acgtgaaatc	gatgattttt	300
agcaatttct	aacatgttgt	gcgtagaaaa	catatgcttg	catacgatag	caacccttat	360
gaatatacag	ggcatacaat	ggacggtaac	acaaactctt	tgcatagtcg	atgagtcgcc	420
agaacactat	ggtaacatac	ttgtggcatt	aacgctttac	agatgcaaag	gactctcgca	480
cccgaaaacg	aaaggtcgca	aaaatg				506

$\langle 210 \rangle$	36122
$\langle 211 \rangle$	472

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36122

 cgantnnggt ggtgagctgt gctcgattat cnactagctc cgatcgactg agactgatac 60
 cgctcctat gcanatattc atctgaaggc tctgaccga tcaactgcaga tatgttcaaa 120
 aaagaggggg aaaccttaaa aaatatctccc accgatggag gaattggccg gcccaagtag 180
 ctctccctt ggttgagaaa gagatgatca cgatgatggt agacactctg ccagtgttct 240
 actatgagaa gctagtgggt tacatgccgt ccagctttgc ggatctgggt ttngccgcgg 300
 atagaactct cagccttatt gcccctccga agctttatgt catattcgcc aataattgac 360
 attcgccctt caccctgcc aatcccggtta acataatgtc catttaattc atctttactc 420
 tcatctatcc ctaatccgcc tcccatcaca tgtttcctc tctttaccct cc 472

<210> 36123
 <211> 511
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36123

 cggaanaag cggggaaagc gctgaaccat gtatatctnn gcanatcga gtacactagc 60
 cngccagacc gtgatctggt ttgaggatcc aatagatact ggtatatatg tggtatannc 120
 atactanaca cttcatctc tcgtactctc acattggtaa ataaagcctc tagtaatcta 180
 cccgatgctt cttcacatgg atgaaaatct aaaagttccc acagaacatc tattacctcc 240
 gctttcatca tctgctcagc acttgagcat cgcttctgtc atgaactata aaagcattag 300
 ggctatgcta atngtactct caagtgttga gtgcaaaaag ttcacaagaa ccactacagg 360
 aactntaaaa tagttatcgg cattgggaat gtaatacatt agagagaact aaagcagctg 420
 attccagagc gcatgtgggt gctgaggctc atcttgataa taacctttgc agctcaaaaa 480
 tacctcccca tcaccactgg cttttggcac n 511

<210> 36124
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36124

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ggggngnnnnn ggtaggcacg acatcgtaga cngacacttc gatacatatc ctanaagtgt 60
tcatataaag atctttcaac gttgatgttc tttccagagt gagtacagga acattatatt 120
gatttcaacc ccatatagta aataataatg gccttctggc ccttgggtcaa gtttcaatat 180
ttaaatggat tttaatgggt tcccttaaag aacttccttt cctctgggttt cattgggatt 240
ggttcaagta taagaatttt cttggaacac cctaataatt accaactaaa taacaattct 300
aattgatagg gcacactttg aaagttgatg aatttgaacc aanatacaaa agcaggcccc 360
tatgaggaaa gaggggtgct caaatattac taccaatact aatgaaaaaa catgtcagac 420
aatggatggg acagaataat agtaccaatg attgcanata gaagagatga caggccagat 480
cagacagtgc aagcatgcca tgnacagaga ggaacacan 519

```

<210> 36125
 <211> 516
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36125

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ggggaaaaaaa annnaaggct gaacatcgat acttcgaact tcnaaactca agctgatgtg 60
cgctaagcct tacatctcag gctaagngca tnttgataa naatttttgn gnngcanaaa 120
gcgctaagcg cagccttgcg gcgctaacc caaaaccctc tcttgaattt gaaaattcaa 180
agtgggccgt acgccgaggg taggctaacc cattggcctt aaacctcaaa tgtcataatg 240
gcaccgctta accgcgcccc aacggaaatg ctaaaaataa aatagaactg ccatangtag 300
ttacctttac accaaaagct ttttctgtg cttgtgccct tgtgcttttg tgctttcttc 360
tgcttgcatc tcaagtcatt cgtgcatcat gctngctntc atcttacatn cttcacttca 420
atccaagtaa gtngatgttt attttcattn gcttttcatg cttttgacct tangatagat 480
gatttctctc tttgtagctn gcagtgttg ttaagt 516

```

<210> 36126
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 36126

tacagatacg ctggaagcac tatgaaacac atgatgatgg atatgtgtat gacagaatga 60
gagcactatt ggggaataata tccttattag tataacattc tgcacactaa ctgtctagga 120
gttgaagcat tataactata ttaagacatg gaacaataaa tgtagtgact aaccactgaa 180
aatgcttaca tgcctaagtg cttgaacgta tgtgtctaga ctttctcagc actaaggtaa 240
tcttgagtaa agattggaga gaaaaagttc atgaaaagtc aacacatttt gatcgttt 298

<210> 36127

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36127

nntaaaactt gcattctacc ctctgatccc ttatttactt attgctttct ctaattatgg 60
ttacagaagg accggctact ttcaaccctt cttgaacaat aaggtttaaa atgtgagcac 120
aacattggat atgaaaaaat tcaccaccac ttactaaacc attagcatgc aaaaaagtc 180
tttcttcaa atagtcttgc attttatcat tggaagaagc attatctaga gttaatgaaa 240
atactttctg ctcaatcccc cattcttcca aaaaaccata tataacttta gccttctcac 300
gccccgagtg tggaggagga aaatgagaaa aattaagcat ttactattc aacttccaat 360
ttgcatcaac ataatgtgca gttaatgaaa tataaccctc agaagtacaa gatgtccaca 420
catc 424

<210> 36128

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36128

cagtagatga agatgaatct gtggctcacc tcatgtactc tctctaagga caatagcatc 60
atttcttgca ctgaattggt gggagttoga aaccatcttt tcaatcaaatt tcctagccta 120
agcaggagtc atatcaccaa gagctccacc actggcagca tcaatcacac tcctctccat 180
gttgctaagt ccctcataga aatattgaag aaagagttgc tcaaaaatct ggtggtgagg 240

acaacttgca cacaatntct tgaatctttc tcagtactca tacaagctct ctccactaag 300
 tttcctgatg cctgaaatgt cttttctgat ggcattggg 339

<210> 36129
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36129

tctacaacaa gctagaaata taaaacgtta tcttttctca tctttaacac ttccccctca 60
 agctggagca tataaattgt gtgctccaag tttggaacat ataaagtgga tctgaggacc 120
 tctcaaggac ttggtcanga tgtctgcaag ctggttggtg gacttaataa attcagtact 180
 gatttctttg gactgcagct tttccagaac aaaatggcaa tcaatctcta taggtttagt 240
 tctctcatga aatacagaat tagaagcgat gtgaagagct gcctgattat cacaatacaa 300
 cttcatctgc tgaatatcac aaaattttta ttcttgaagt tgtttaatcc acaccaattc 360
 acaagtaaca agagccatag ctctatattc tgcttctaca cttgatcagg caacaacaca 420
 c 421

<210> 36130
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 36130

aaaaagagtg ctatctctac gacctatctc acgactaata ttaatcactc ctcttttaag 60
 actacaaata tcgaatatgg atcataaggc tttttgttta cgactttgga ctaattaaga 120
 actaaagtat tccaaacctt tagggtagga caatccaaaa aatggacgta aattaactat 180
 tacttctagg attccttttc ttctgagtat tatttttata atcttagaaa ataattaata 240
 gatttattat caggacaaat tatag 265

<210> 36131
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36131

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acttttctgtg attggtttaa agataacaatc tttgcagatg agaatgcttc agaaacatta 120
agaaaactag ccgatgggcc tgtaagaaat gttataactt ggcaaggata cgacataaac 180
aagtattcat ttacacaaa agcacaagat gacaaaagta caatgcagaa cagcggggtc 240
accctaaggg ctgaatctca acactttgca agtgtcaatg acgccaatcc ctgtgttgct 300
tccgtccctt actttgggtt cattgatgaa atttaggagc ttaactatgt gaaatttacg 360
gtatgtgttt tcaaagttaa atggggtgac aacaacaccg gtgtgcgac cgatgatat 419

<210> 36132
<211> 441
<212> DNA
<213> Glycine max

<400> 36132

gactaagtgc tcaccaacac tagataagaa tccctcattt tgtttcatgt aaacctcttc 60
ttctagatca ccattcagga acgcggtttt cacatccatt tgatgcagct caagatcaaa 120
atgagctact aatgccaaaa ttactcgaag agagtctttc ttagatacag gggaaaaggt 180
ctctctgtaa tcgattcctt ctctgtgagt gaatccttta gcaacaagtc ttgccttatg 240
tctctcaatg ttgccttctg agtctttctt tgttttgaag acccatctac atccgatggc 300
ttttacacca acaggcaact caactagatc ccaaacttgg ttagatgcca tagaatccat 360
ctcatccctc atagcattat accacacatt tgattcctta gaactcatgg cttatgaaaa 420
cgtctcagta tcattttccg g 441

<210> 36133
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36133

ttcttatcca aggctcatct tgggtggtgaa gcttcttctt ccatggctta tttccctagt 60
ggatggtgcc tcttctcacc tcttctcctt tgtcttccgc tgcattcca tgggtggaaaa 120

Dedication

agggtgtgnn	nncttgtata	gccgncnact	aggataaacc	acggagcaac	aagggtctcc	60
cgaagaccga	ctatcttttt	acacncaaag	cgccagagag	ggcgtaaca	acataaaact	120
tattcctcca	aagggaccga	ataacatgtc	ataagcacta	atcggccttc	acatttgaga	180
attcagagag	catatattct	attgcttact	aagataactca	catctcttac	ttacaatttg	240
agacctgaac	agttccattt	caccgtcagt	aacatatgct	gagcctataa	tatagcttga	300
tgtgagattt	ctttggacat	ccacaacagc	gtgttactag	attacactat	cgcacaaactg	360
attactagat	tgtgtccccc	tcagatgtgg	cttcatgcta	cagggaaga	accaagatat	420
gaaaatggga	cactagaact	ttttcctcac	aagggtgaatg	gtctttatct	tcgtttacaa	480
cgctgtctgt	atgatcccg					499

ccccccgcc	agccaataaa	aaagaaaaaa	aaggaaaaga	anaccagaa	acagggcggn	60
nnatgagcct	cgaagaccac	cnanacanna	acaccgggg	gaggaagaaa	acgcccgagg	120
agagagcagg	angcttattg	tgaccaggcg	accacaaacg	tggagccgga	agagactagt	180
gggacacccc	aaggcagaga	aactgacaaa	cgaaaagaaa	acaagcaacg	aagagaagac	240

gagactcaaa gtgaaaccat gaaacctcaa gcaaacgtag aaggagcaca accaccaaga 300
agacggacac acaatcaaac gagatctaca tatgcagaga agcgcaaadc agcgccccaa 360
caagaggaga tgacaccgaa aggcaacacc ccaagacgcc gcgagaacgc gaacaacaca 420
cacaccggca cacacaaaaa gaagaacgcg aggagagaga ctagcacagg gggcaccacg 480
acgcgacnta gacacgcaga gcgagtaaac aagcagagcg aaagacagga ccacaacaca 540
aact 544

<210> 36136
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36136

ctcacctcct tgagatgaga agctagagnc tagctacaca ccccctataa tagctaagct 60
caccctatg acaaaaataca tgataataca aaaaanatcc ctactacaaa gactactcan 120
aatgccttga aatacaaggc taanacccta tactattaga atggccanaa tacaaggccc 180
aaacgaagga gaaacctatt ctgatantg caaagataag tgggctcata cttaacccat 240
gggctcaaaa tctaccctaa agtcatgag 270

<210> 36137
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36137

ntntggattn tcacaagtgt tggctgaaaa ntttttagag tncttctaca accaattggt 60
tggcaagctg accaaggggg gttaaatagt gtgttagata tatatgaaaa tcatttcgca 120
aggagtatgt gttaagtcaa aagacatttg tgtcttaaga cgaatcatgc ccttgactat 180
tttgatttga cgcacataaa tacaagggtt aaaatgttgt tttgtgcat attagaccat 240
gcctcatata tttgtgtttg tataatcgaa tgatagaaga ggcattccat gatctgataa 300
agcattaaat gatagcatta aaaaattcat ttattgtcgc gtctcggatt cattttatag 360
atgttggggt agtcgagaat ctaatagagg ggaggggttg aatagattcc ttcgaaaact 420

taacctctta atttcttaatt tcaatt

446

<210> 36138
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36138

acctattggt gtcaactttt acttacttgc atntactggt tttttttact atagaagtag 60
tttatttctg ttntaaccat ccattatcaa tgctattcca acaatgcctt atttctgaat 120
taaactctgt ctaataagca agttacctga gttcaatact cggatcactc cattnntaat 180
ttaaatactt gactacccgg tgcgctntcc ggcgaaatcgg atttcccttg aatatatttg 240
tataaaggaa aatnggacca naaagtaact ggaggggata tccaacatat agtctntgaa 300
aagtaaaggt ggatgacatt gatagtctcc t 331

<210> 36139
<211> 441
<212> DNA
<213> Glycine max

<400> 36139

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caatcatgaa ttggcaaaga ccttagttgg acatccatat gctgggagat tgacaaatga 120
tgagaagaat atcattgctg aaatgacaaa gtogaatgtg aaaccaagaa acatcttgct 180
aacgttgaag gagcacaaca ccaatagttg caccacaatc aaacaaatct acaatgcaag 240
aagtgcatat cgttcttcaa taagaggaga tgacactgaa atgcaacacc taatgaggct 300
tcttgaacgt gatcaatata ttcatgtgta tagattgaag gatgaagttg tgggtgtgtga 360
tttgttttgg tgtcaccag atgcagttaa gttatgtaat gcgtgtcatc ttgttttatt 420
gatagacagt acctacaaaa c 441

<210> 36140
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 36140

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tatttcttta ggaatnntat cataactaag aaaacaccaa gtcacccta taacactcga 120

tccagaanaa tggataatga agagggcgtg tangaacata tgaaggccga tctattggcc 180

ttaaaggatc aaatggcttc catctcngag gtcatgttan aactccagaa aaccatagag 240

gataaagcca ccgcaaccgc cttcagtaca gttaggaag cggagccggt gctgcagccc 300

gctttgaatc cggcctagac agaaacacgg tcgtgttcgg tcgaaggtat agtccacaag 360

cttatcctta t 371

<210> 36141

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36141

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ttctccatgt ggggaataga tgatcatggg gccattgagc ccaaggcctc gaatggcat 120

cgcttcatcc tcgtagcaat agattatttc accaagtggg tcgaggcggc ttcataatacc 180

aatgtcacga ggaatgtggt ggtcagggtc attaagaaag agatcatctg ccgatatggt 240

ttgccaagaa agattatcac ggacaacggc accaacctga ataacaagat gatgggggaa 300

atgtgcgagg agttttaaata ccagcatcac aattccacac cctaccggcc aaagatgaat 360

ggagccgtgg aagcagccaa taagaatatc aaaaagatta tccaaaagat gactgtgtca 420

tacaaggatt ggcacgagat gctc 444

<210> 36142

<211> 291

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36142

gtcactatat gtgacgcccc acaatcggac atncgactta aatgttatga ccatctgaat 60

ttctcaagag cttccgttgt tcaattctga gcgtcttcgt atgtgatttg tctgaatcgg 120

acatgcgtgt gaaaaagtat gaccatttgt atttctcaag agcttccgat tgacaatttc 180
aagcctctcg acatattatg cgcccgaatc ggacatccgt gtgaaaagt atgaccattt 240
gtatttctca agagcttccg atgttcaatt tcgagcctct cgacatatta t 291

<210> 36143
<211> 405
<212> DNA
<213> Glycine max
<400> 36143

tataatatat tgatacgtc gaaattaaac gtcggaaact cttgagaaat tcaaattggc 60
ataacttttc acacggatgt ccgattcggg cgcataatat gtcgagaggc tcgaaattga 120
acaacggaag ctcttgagaa attcaaattg tcataacttt tcacacggat gtccgattca 180
ggagcatcac atatagagac gctcgaaatt caaatgggtca taacttttca cactgatgtt 240
cgatacaagc ttataatata ttgatacgt cgagattaaa cattggaaac tctctagaaa 300
ttcaaattggc cataactttt cacactgatg tccgatttaa gcgcataata tgtcgagagg 360
ctcgagattg aataacagaa gctcttgaga aattcaacat ggcat 405

<210> 36144
<211> 238
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36144

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aatcactaat tggcatccac atttgagaat ccaaagtgca taaagtttat tgattactaa 120
gccactaact tactttactt acaatnttgg cgatgatcgt tctatatcaa tctcgttaac 180
ctatgctctg ctcatcttta ttnttccctg catgatttcc ttgggactac agatactg 238

<210> 36145
<211> 468
<212> DNA
<213> Glycine max
<400> 36145

tcttgagtc ttctatgcaa tgcccttggg gggtaggatt actatattct ctccccctt 60

cccaaaacca agcttgacca atcccaaccc aaccgggca tagccagtca gtgagaacct 180
 gtgatgtacc taagcatgcg agctcttggc agtcaacaga taaaaggaac aaagaccaca 240
 aagcaaggag gcttgtgtgg tggctggcca gctgtgaact ttgattgata tatgggatat 300
 ggctctggt aatcaattac caaggggtgg taatcgatta ccaggcttaa aaatgaagac 360
 aggaggctaa gatggtctct ggtaatcgat caccaagggg tgtaatcgat taccacgctt 420
 cgaaactaag tcatgaagct aggagagctt ctgggtcat 458

<210> 36148
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36148

agctgcagct gtaagcctta ctaatngcat ttttatanaa cnttgaagcc aaagaaaaag 60
 tattggtact cacaaaagca ttattatata ctcagaagtc tgaattgctt cgtatgatgc 120
 aagccaccaa atgcattaga aaaacaatgg tttctaagat gatgttccca agccagacat 180
 gtgcattgta taagtccac aaccatctaa atcacattct ctctactcaa gtcttcacca 240
 tctcaacaaa tgtctagtca aaggtgatct caagtagata cattangtat ttacattccc 300
 tttggttgaa catagcctcc caactaaggt aaatgtaaca gatgacacat cttatagagt 360
 gatggttatt atatccncaa caagaaagtg gaaggaatta gcgtacttca accnccaatc 420
 acctaaagta cagaacacca ttatccacct acggtaacat gcttctag 468

<210> 36149
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36149

ctttgatact ntgaaacaga aactgacctc tgctcccata atctttgctc caaattggac 60
 aatagatttt gaaataatgt gtgatgcaag tgattatgca gtaggatcag ttctgggtca 120
 aaggaaaaat aaaatttttc atgtcataca ctatgaaagc aaggttttaa ataaagctca 180
 aataaattat gccacaactg agaaataatt gcttgcaata gtatatgctt tggaaaaatt 240

tagatcttat ttgataggat ctaaaattat gggttttact gatcatgttg ctataagtta 300
tctgttagtt aaagctgatt ctaaacccca acttatccga tggattctgt tgttgcagga 360
at ttgactta aagatcaagg ataaaaaggg aagtgaaaat tatgtagttg atcatctgtc 420
taggctgacc aatgatgagg tgatcacaca agaacctg 458

<210> 36150
<211> 424
<212> DNA
<213> Glycine max

<400> 36150

tggactcgat ggggccgatg catgttgaaa gccttggacg aaagatgtat gcctatgttg 60
ttgtggatga tttctccaga tatacctgag tcaattttat cagagagaga tcacacacct 120
ttgaagtatt caaggagttg agtctaatac tgcaaagaga gagagatagt gtcatcatga 180
gaatcacgag tgaccatggc agagagtttg aaaacagcaa gtttactgaa ttctgcacgt 240
ctgaaggcat cactcatgag ttctctgcag ctcttacacc acaacaaaat ggcatagttg 300
aaaggaagaa caggactctg catgaagctg ctacgggtcat gcttcatgct caagaacttg 360
cctataatct ctgggctgaa gccatgaaca cagcatgcta catgcacaac agagtctcac 420
ttat 424

<210> 36151
<211> 277
<212> DNA
<213> Glycine max

<400> 36151

agatactcac cttacaagga agtttctgtgg aggaggagaa ttagagagtt tcatttgtct 60
tggaattttg acggaaaaaa gggagagaat ttaaccttta aagttgtctc tcaaaaatct 120
cattcctcaa atttccctta tacttgatgg agtggggccac tcacgaatga catttattct 180
cttaagggcc gcggaaacac cttgatcact atttacacaa ttgaggaaag tcatgtgata 240
aaacatacct ttttctatat ttttatgttg attactc 277

<210> 36152
<211> 339
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36152

aaaaggaat attgtagccg atgctctttc tcggcgatcat gcattacttt ctatgcttga 60
 aacacaattg attggtcttg aatgtctgaa aagcatgtat gaaaatgatg aaactnttgg 120
 agaaatttta caaattgtga aaaattttca gaaaatgggt tcttttagaca tgaacgctgt 180
 cttttcaaag aaaacaaatc gtgtgtgcct aaatgttcta ctagaaatct gcttgcttgt 240
 gaagcacatg aaggagggtt aatggggcat tttgggggcc aaaagactct ataaacatta 300
 caagaacatt nttattggcc tcatatgaaa aaggatgtg 339

<210> 36153

<211> 398

<212> DNA

<213> Glycine max

<400> 36153

atactcaacc ttctagatga gttatgtctg cgaatcggac atcctgtgat atgttattac 60
 catttgaatt tctcgagtgc gtggcggttg ttaatttcaa gcgtctcgat attttatgtc 120
 ctcaaactag acatcggagc gaaatgttat gaccattcga agttgtcgag agcttccggt 180
 tttcaatttc gagcgtctac atgagttatg tcaccgaatc atgacatctg agtgaaatgt 240
 tatgaccatt ccaatgggtc gagagcttcc gctgttcaat ctcgagcgtc tagatgagct 300
 atgtaccga atcggacata cgcgttaaaa gctgtgacca tgctgatatg gcgagagctg 360
 gcgctgttca atcacgagcg tctcgtatta ttatgtcc 398

<210> 36154

<211> 243

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36154

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 ttanctattc tacatatgat aaggaattgt atgccttatt aagagctttg cagacttggc 120
 agtataatct cttgccaag gaatttagta ttcacagtga tcataagtct ttgaatactt 180

<210> 36157
 <211> 429
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36157

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 catttggtgtt gtaatgtcat ttaatcaatg ttaaaacaaa atctaaccga tcgttcacgc 120
 tataacctcg gttaaacaaa aaaaggtaaa ataataataa aataatcaaa aaaatcaatc 180
 ggacgttttt ctttgaaagt ttccttgaat taattgacta ataaccaag tgaaaccaag 240
 gctaaaatca actcaciaat caagcttgtc cgcaaaaaat cactcaagac cgttttaagg 300
 tccaacgcct taaaacggtc ctctttgctt atattggtta aaatggacca ttcaaagcat 360
 aaaatcaaca tataaattta tcgcttttgc aagaactacg taggtatgat tntctcatca 420
 caattgagg 429

<210> 36158
 <211> 450
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36158

 gtagatagct ncagcgttgc ccaaccagct aacactgatt ntgacaggca cttgttcccg 60
 aacgccgaac attaataaca cttccggggc atcaagggat tggcattcct cagagagagt 120
 ggggtcccact ggaggaagat gaagtccttg actttcaaga aggaggtgct tattagcgcc 180
 tggccacaat ttgtgaaccc catgattaaa tccgacctag agatagtcac gcaattctat 240
 gccaacgcct gcctaccgaa ganggagctc gatatatgtg tgtagccgca nagatatttt 300
 gatgttntga tgaatgccaa ggatctcacg cctctcnaag tttattcaag acaagaatcc 360
 aagaaattca agatatatga tncagataat cttcagagtc ttatgaagga aattccaagt 420
 ngaaacaaca agaggtttga ccatagaatn 450

<210> 36159
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36159

tccgcaacat ccaagtaaaa caacattcaa acagcacnaa acttcactgc caaganaata 60
 gagcaaaggc agaaaactct gccaaaacac caaccgaaat cacagctttt ctactttaa 120
 gaccccgagta acaattcctt cgatccaatt cgttaaccgt tgggttgact ccaaaatttt 180
 actggaagtc tctagtagat aagcctacat tttgaccgtt gggatctact agcaaacatc 240
 cagaactcat tctgactgc tctttcccca accagcaaat gcatagcatt tttctgact 300
 tgtgcaaaat tctgctgcac aatttcacag caaaattctg caciaagtgc agatttcgaa 360
 aaccacactt cccctcatcc aatcttgccc aaatcaaadc ctataagtcc caaaccatgt 420
 atcaatcatg tctaaaccaa agtcaagctt 450

<210> 36160
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36160

aggggnttat gggcagttgc nngatgntct agagattctc tagagaccac gcagccgtct 60
 ggctctagan acccttggtg atcgatatca ttttttanag cccacaaaag gggtttttat 120
 atatgtttat agttataacc cactaaactac aggggatgat tgcccttgta aaaaaataga 180
 tagaacacac acacacacac acacatatag atataattct caagcttata tatnaaacat 240
 tcctcttata tgatgtgacg tatatatata tatatatata tatatatata tatatatata 300
 tatatgtata tatatatata tatataacgg tgtgatgggc acgtggaaac aaaatataga 360
 gaaaatttga aactgtgact taagaagaat tttgtagatt ttatttctcg acaaaaattt 420
 tgtatgtttt atatatccac aggaaggatg tcttattgtg tttcttctc atataatgag 480
 tgttgacccc agaaaccatt tattn 506

<210> 36161
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 36161

tgccccgagtg atgcatccct atgagatgcn gtggaattat tttcgatcag aatggccatt 60
ccttggagga tggggtagaa ccaagcgcat gctttttcaa agaacgttca tggaatcaag 120
ttgaacaatg gaagtaacta tcttgcaaaa attggggcaa aggatgaatc tagtcacatg 180
actgcatgaa cgactggcac acgtatttat gaaaggagat gtccttgcta cttgcggtgt 240
cacctataac atatatgtga tagaccgtgc ggaaaatcta aattgattga agcggatatg 300
ctgcacagat gctttaactg tacatcatac gtacacatcc ttgctgctca ataggagcgg 360
agcccatggc actctctcct tgaatatgaa catgattatc cataagatga ctgtgtcata 420
c 421

<210> 36162

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36162

cagtctggat acccttcacg aacagatnng tcggtattg gagttttata nnttcaatcc 60
ctctaataa aaatatgcat gaaatgtcgg taaaagaaga tggttcgaat ctgacgtcca 120
tgcgagtgat agcttccttt gttaaccctc gatcgagtca ttctttccct gggccgaagt 180
acgacaagga attnnttttt cgatcatact atcggtgaaa nannatattt ttngccgaga 240
tgggctaatag ttctcctggc cgaataaatg caaatatgcc agtttcggcc gaaacaaaac 300
gtcggttgag ctcgctcaaa taaacttagc cgacctacat tgtacatctt ttatgcaaca 360
ccaaaacaag aggacttcct ctgccgtaat aaaacatatc ggccagcgag c 411

<210> 36163

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36163

ntacagcaga nttagtaat gaccactaa cctagaatta aataacttaa tgccattaac 60
ctagggaatt aaaacaaact taatggctga gtgtaactga aattgtggca accaaaagtc 120

<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36168

agcttgnta ccccatgttg aatntgcttt ctttatagct gttcatagca ccactaattg 60
ttctcctttt gaagttgttt atggttttta cccactaact cctcttgatc ttttgcctat 120
gcctaattgt tctgttttta agcataaaga aagtcaagca caggcggact atgtgaagaa 180
gcttcatgag agagtcaaag atcanattga gaggaataat aaaagctatg ctaaacaagc 240
caacaaaggg agaaagaagg gtgtcttcga acccgagat tngntntggg tgcacatgag 300
aaaagaaagg tttccggaac anaggaaatc aaagcttcaa ccaaggggag atggaccatt 360
tcaagtgtt ganagaatca atgacaatgc ttacanagtt gagctgcccg gtgagtataa 420
tgtagttcc accttcaatg tctctgatnn tatctctttt ga 462

<210> 36169
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36169

tctgttgac cttgaacaag caatcaactc ctentcagac tatgctatgt gctcgcgact 60
ggtccttttc ttcccttcgc aacttgagtt cattattgct accccataga gctccgcgaa 120
atgtgttccg gccatactct tccttgcgag ccctcttggg ctcttgttca agggctcttg 180
cggtaatgac attctcttcc cgtaaccogg cgcactcctt ccgaacgtgt gtagcagcca 240
actgaactt ctcttggcg agttttgcct ttcctaactc gcttttgaga gcttggactt 300
cttcgtcttc ttccggtgct tcaaaattct cttcgctgac gacttttaac ttggcgagcc 360
aatctaaacc tcgtatgcga actttcagcc attcatggta cccaccaatg atgccattac 420
gaatgcctct aagctcttga tctttcctta acggagtttc ccatgc 466

<210> 36170
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36170

atatatatag ccagaagggg tggttcccta naataacgga cgagctcacc tcagtatccc 60
ccataaaaag acaagctcac cagcgttata tatgaagaac cgaacccaaa ggtaatgcta 120
tatatctttc atctgcttag atattccgag ggttttggtt ggattgatga gttaataata 180
aaacaagcta attaaaatga atatatgtta gttggtcttg tttcttagaa taagatcata 240
agatgaaatg anatgtattg aaacttacac aaagctatct acattttctt ttcattcaat 300
aagcttatat ctctcttact atatatatat atgnggggct atggaatata attaataact 360
aactgttcac taatataata tatata 386

<210> 36171
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36171

taattattca tgcactatgt gtattttaat gnttcaaaac ngtgngttct taaatctaaa 60
tagcttagtt ggagaattaa atttaaaaaa taattataaa ataattacat aactcttcat 120
gcgatattca cacctttata acataattag tagtatctaa caccttatat tttgtatata 180
taattttaaa aataattata ggaattcatt aatgtacacc tacctatttt tttagaagta 240
gttactaaat tacaataaga ttcttaaaat acatcccagg cctaagttgt taagattatg 300
tttaataaga tatttttagga gtctataagt tattttgact aaagtaaact tgtctaatac 360
atgagtttan tttttataaa ctaccttaag agaacttatt ttgataagtt acttaaactt 420
ataaaagata agctaactta aaagtttctt ttcatt 455

<210> 36172
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36172

agcttcatac aactgagaca tggtagaata atagngtact ccaggcatng ccgttngctg 60
agatctcatc acccttacag actatcgaaa aaagctttta atggaagtca agagcacgaa 120

actgcgctga taccattgac tgggtgaatag gtcttccagt ggggtgaaca cctgaatact 180
 gtatttggaa agacctaaaa gaaggataaa agtaagactt gcatatggaa gaagaggtcc 240
 attttctttg atatttcgta ttggtttgat ctagatgtta gacattgtat cgatgttatg 300
 catgtggaga aaanagtatg tgatagtgtc attgagacgc tccttaacat tcaatgcaag 360
 atgaaagatg gtctgaatac ccgtcatgat ctatctgaca tgggtatacg atcgagttg 420
 catccaaagt ctgggtgggaa aatatacttg cctccaactt gtcatac 467

<210> 36173
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36173

agaaactcaa gcttaacagc taanaagttt gtacagaaga agaaaattta aagattttnt 60
 ntgtcattat gatatggaat atccaccaat tttgctgatg attaatttcc atcaagtaat 120
 ccaattggtc tcctttaatt gaatttctct tccaatcat gttttttcat tcacaagact 180
 cgaatataaa atcttggtta aggagaccac aggactaacg tatgttgctg gtaaaagtac 240
 atggcctcac ttttggttta ttagtaaacc cgaaaaatga gaaattgcgg gttgatatgg 300
 tttctcaaat aggaagggtt gtgttaaagg ggtatgaaaa gttgcagcat atgtatgtga 360
 ctttctgtta gtagagtgtt acattagtaa tatgttccta tgcatatctt ctggcattca 420
 gtgttttcat gttcaagtcg tactacttga caatatggta tgtactc 467

<210> 36174
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36174

ccgaacacaa naggagagaa ganagaacta ttgatcagct agagaacacc ccggagcgag 60
 aggcataggg atagagcaaa cgctgaacta tnccgagccc aaagcaatga ccacaagaaa 120
 ggggagtaga ggctcaggat gcaccatagc ggacctggta gcacaccacc tggccaacag 180
 acagagccat ctggcattca agcaccagaa acagctgaag aaacggctaa aacggatcac 240

acaccacaag ccaaaggcga aggaagcata acgcacggaa cagaggcgca cacacccgac 300
 tcgactcacg ctgtacgcat caaaacagaa acatgggaga ccaagtcgcg cacactgcga 360
 cgctgtgaca ccgacacaag cgtacctaaa tggatctcgg acagctggat aaggcacaac 420
 aanacagcac cgaggcagca acaccggcta tgtagaggca ataacgcagg aag 473

<210> 36175
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 36175
 ccttcttata caaggtcat cttggtggtg aagcttcttc tttctggttt atttacctag 60
 tggatggtgc gggttcttac ctcttctcct ttgtcttcg ctgcatctcc atggtggaaa 120
 atcaccaata aaggacctca ttgaagctca aagatccagc ctccatagaa gccccacaag 180
 caagcttcca tcaagtggta atcagagcac aagagcttca agtaggtgct ccttaaacct 240
 ccattaattt tttttgcttt accttctctt acattgacgt ctcttcattt ttttctccac 300
 gtatctcctc atatgtcttg tgctaaatat tgtaaacatg attctttata gattccaccg 360
 attaaacttg ctatagaagt tacatttgat tttctatggt tcaaatttct t 411

<210> 36176
 <211> 59
 <212> DNA
 <213> Glycine max

<400> 36176
 agcttcgatg ccgatgagca ggtcatctcg tgcgcgctca aggagctcgg cggcggcgc 59

<210> 36177
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 36177
 gatgcgcatc caccggctc gccaccgcac aggcccgat taccttatcg gcatgcatgg 60
 tctttgcagg gcatcacaac tttcagaatt tcatggaaac taaaaatact tatgtagaac 120
 aatcacttga cctgcctgca ggcgcgcctg tgactgtccc ccaggcgact gcaccaccac 180

agtcctctat aagacatcat ttatcagatg actcggccgc acggccccgg cttcactcgt 240
 agaatcgccg cttggattcg ccggccagca ccgctggaag gcgaacaagg agttcctaga 300
 ggagtcgcct ggcaacgctc caggcatcgt tggagacgag cctgcacccc accggtgcag 360
 gctttttttt gcttcagcgc atgctcatgg actggcgctt ccaggccggg tcctgccagc 420
 gctggaaca 429

<210> 36178
 <211> 260
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36178

tgctccacan aggccataat catcacagcg gtccccttga actgagaatt ctgagaccca 60
 actggaatga tgatcattcc ttgaaaaatg ctgattcaaa ncaaactgac tcagcacata 120
 atcttgatac aatggtgtct ntggtctcat aagagtaaga cacttcatca gaatcanaaa 180
 caaaaatggg tntgaaaact ggatttgcac tgagaactgg atcacctttg aatattgccc 240
 ataccatggg ccacttctga 260

<210> 36179
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 36179

acacttgaga atactcacc ttgctgtttt attataaata tcaataattg tcagatccac 60
 ctggttaagg ttcacaaaat aacagccatt gtatcctatc cacaccaagg aaaaacatat 120
 taaaacaaa gacaatatag atttaaaagt tctgagcaaa tcagtgtgag ttattctgca 180
 taagaactca gaccaacaat catggagaac agcaaattct tcgtgatacg actggtataa 240
 tcattttctt tattataaga aaaattacaa acgttcagca atggttgata gaatacatag 300
 tgtcacaaga taaccccatg caatatcaa aacagaatag ggatctcaaa ggattagaga 360
 gaatattaag aaaaaatagt ggaagcatta taacatatat aaacattgat gagtgatgac 420
 aaaggaaaat aaaattaaac aagcc 445

<210> 36180
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36180

tatttgatct aatggatctg anaagaggca natgtaatca tcatgcttag acgaatgaga 60
 aaactggngc anataaagag ggtgaggatg anggagaaac ccatgctgtg acttgcattt 120
 ctgtacngnc aagttttcca ccaacccaac aatatcttta ctcagccaat aacaaacttt 180
 ctcccttacc accacccagt tatccacaaa ggccatccct aaatctacca caaagtctgt 240
 ctaccgcact tnncatgacg aacaccacct ttagcacann accaaaacac caaccaagaa 300
 gtgaatnttg cagcgagaaa gcctgtagaa atcaccccaa ttncagtgtc ctatgctgac 360
 ttgctccata tctacttgat anttcantgg tagccataac cctagccaan ggtcattcaa 420
 cctcactttt ctgangatac gactcgaacg ccn 453

<210> 36181
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 36181

tgttaaaaac ggaagaaaag aaaatgggaa atgaacgata ttaagatgaa agctaaaaaa 60
 caagaaatga attgaaagtc tcagattcga aaacttaccg gttgaagaat gaagaacgaa 120
 tgaagaatga atgaagaacg acggaaaacc atcatggatt tgctcacgaa aacgtctcgg 180
 aagcattaca gaagcacctc ggcttggatt ttcttcacgg aaacaatttt ttttcaccag 240
 aacagctgaa atgcatagcc aggggatccg ggatccttgg aacaaccccc tttttctttt 300
 tttataggaa aaggggagag gaggttgctg cccagctcgc ccaggcgagc tgggttgctt 360
 cctttagaag caaccatgct tcgaaaatac tctggaaggt ccaaattcaa aatttcga 418

<210> 36182
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 36182

ttccggaag aataacttta agatccagat aatatgatgt attataccac ataaccagaa 60

acgaacaccc tctgtcattg ctgcatatat agcttgagtc aagttcttct atttaagaat 120

atgggtttaca tatagtaccg aaaaaaaaaa caatataggt tatattgcgt tgctttgact 180

aataatatcg tattgtagaa tacaaatatg ttgcacgtct gactcttaag aagaacacaa 240

nattaagaaa agaatcanat cagtaaataa ccagttacga tggacaacat aagacattga 300

ttttttttta cttaatanat atgagtcaaa ttttttgttc caaataaaaag atattaaata 360

gattacaaaa atctaattnt ctatttaata attata 396

<210> 36183

<211> 442

<212> DNA

<213> Glycine max

<400> 36183

tcaacagaag gggtccttct cttcagtatg catatgatct tggtttatct tctgaccatc 60

ttaggategt atcttattcc tttgttggaac cgggtggttca acccggttca gcaccctttg 120

gcctccaaac cgagttggct aagatgactg ctcaagaaat catggaggct aaggcccttg 180

cagcttccaa gagtcacagt gaagctgaaa ggagacgcag ggagagaatc aataaccatc 240

ttgctaagct ggcgagcttg ttgcctagca caaccaaagt aagtctaatt aattaattaa 300

tttaactaaa attaaataat aaattcttcc cataaattaa ccacgtattc aaattataaa 360

atatgtatat ttactatta tgaatcatga attggctact actagttcgc atgtgtaatt 420

aatcatctga acaaatacta aa 442

<210> 36184

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36184

tttcttgagc aagtagcctg gcctgaagct caacttccat tggtagagacc caacgaggct 60

actccgcctg agcccacctg tgcaggttga tccagagcca actaaccac aatctctagt 120

ggtaaattcca ctatcttctc ttgagcgtga agtagttccc ccattctccac ctctgattat 180

catctccgat gcatcatctg atgaagcagc tgcccctcct gattcaccaa aaggagaata 240
cagctgacct tctacttcc tagttggagg aatttctgat tcgtcatctg gagaagcttt 300
accctcactg attcccagtt agacactggt gacatgtgat cctgatgacc tnttgctttt 360
ggttatatta taatatggtt 380

<210> 36185
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36185

acactatgaa tactcagctt agaagtgtgc taactaatgt ttaataagga tgtagggact 60
agtttgtcta acttatgtct tatatgtcag caagaaagga aactcttttc catctttttt 120
gtgattgtat ggatactaag ttgatgtggc aattttttat tcgagtataa ggttcaatac 180
aacatcaatt ctttcataac caattgtcgc aacctaccct tttgcgggtg tcgcaacatg 240
cccttttgcg ggcgagcgaa ggcgaggctc acgggtgcgc tttccaaagg aggaaagatg 300
cgcgaggatcg ccaccaacgt ttatttgtgg gaaacgtcgg aaaaaccgaa ggaaaccggt 360
cgaaatgaaa attctaagtt cgggagttgt atttacgtnt caggaaggta ttagcacctc 420
ttacgcttgt cttaaaggac aaagcctat ttttaaaat 459

<210> 36186
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36186

agcttattat tcgtacacca naatgtgttc cnttgagtct tatnatagaa cccaccaacc 60
ggaccaagtt gttgtggtgg ngaggagtct tgaggagagac tcaagcagtg tatcgagggg 120
aatctccact aaaggcctgc gcaacacaac aaattagaga cttgtctagt aaaaaaggca 180
ccttgaatct aagtaaaaaa gaacactcta ctttaactca acttcacgtt attctacttt 240
nttttactgg cttcacgtta ttgtacttga aacagctaaa cttcatgcan aaaacaaatt 300
ttcaagaacg tattgttttt ttattattta aaataccaac ttagagtgaag agtcgataca 360

gaaacagcaa gacactcata aaatggaaga taaaagaatg tgatgaccaa gttaattcaa 420
cgcaaccctt tatctcagac tta 443

<210> 36187
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36187

tataaagctt gggaaatcct cactttacat gctaatttgt ggtgggtgac ttgggtccta 60
aatcctaatt gtaagatagt atcagagtat aaccaagatc cattggtggg ctaacctaga 120
tcaattgggc cacctgcatt cccacattcc aggctggtag cctagagcat gaaggggtgt 180
gtgttgaaaa gccacttaat cacgggtcaac ctatctcgcc ttagttacgg cctctttggg 240
ggctgtcttt ttttttatca gcaaaaatat ataattatat tgatatgagt accagaggta 300
caaagggttac aatttaatac atcaaacaaa tgggttccaat atcagacttg atgtagtctt 360
aattgcagcc tcaaggggtg tgctttttta ggccacatcg actagagata tggcttanat 420
agagcttata aaga 434

<210> 36188
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36188

gctatgtcct cgcgactggt ctctttcttc cctccgcaac ttgagttcac tattgctacc 60
ccatagagct ccgcgaaatt tgttccggcc ataactcttc ttgcgagccc tcttgggtctc 120
ttgttcaagg gctcttgagg taattgcatt ctcttcccg aaccggcac actccttccg 180
aacgtgtgta gcggccaact tgatcttctc cttggcaagt tttgcctttc ctaactcgct 240
tttgagagat tggacttctt cgtcctcttc cgggtgcttca naatcctctt cgctgacgac 300
tnttaacttg gagagccaat ctanacctcg tatatgaact ttcagccatt cgtggtaccc 360
accaatgata ccattacgaa tgcttctaag ctcttgatct ttccttaac 409

<210> 36189
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 36189

tatagaatat ataataaaag aactatgact attgaagaat cattcatggt tcctttgatg 60
 agtctaagtc tattttctccg agaaaggata ttttagatga tggtgcagaa tctttagaat 120
 gaatgcatat tcatggacaa gattctaaag ggaaaggga aggaagcaat gaagatcctc 180
 ccgaagaaga tcatcccctt gacaacatta ttggtgatat ctcaaaagg gtaacaacta 240
 gacatttctt taaagattta tgcaataata tggctttttt atctatgatt gaacctagaa 300
 atataaatga agccatatta gatgatcatt ggatagttgc tatgcaagaa gaactaaatc 360
 agtttgaaag aaacaatgtg tgggaattag taaagaaacc tgaaaattgc cctatcatag 420
 gaacaaaatg ggtatatt 437

<210> 36190
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36190

tgggttctgc cagttcnnac ttgtcggnen ctnnanaang ancgccgctg cagcnaaaga 60
 gcagagtaaa gcannacttt ttattcncca ncctaaccgc ncaggnggaa ctcatgcgcg 120
 accgccccac ncaacccaag ggccagactt acacgcgact gagaacaatc aggtggagaa 180
 gaggnctgag gacttaactc cttaatgtgt catagacact ctcttgggcc ctagtatggt 240
 atacttacta actactatct ctatctcttt taaaaagatg agtaatcgct tattctacac 300
 tataatttgt ttcttatgaa taggaacaaa tgtagtatac ttctaaagca ccttataaca 360
 caaataatag tcataatagt agtaattaa catcaccata ggacggcata ntaatgacaa 420
 tataagacag ggtacgatga ccgtaataat actcacaata tcgatcacat gcattgatca 480
 tgtccacacc actattataa atcaccacta atggactaat ag 522

<210> 36191
 <211> 432
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36191

taatcaaattg atagatgccc taagagatat aaacattnnt aatangaata tatagtaaaa 60

aggcaaaaaca aaaaactcta tgcgttggag aggcctaatac tctcttaagg tccaattcc 120

aaatttcatac ctacccccca atgatttctt ccactctctg cacaaccaat tcacatgcct 180

tatgcctact actaatgcca acttgaaaat taattaagca atttctctct cctaaacttg 240

agcaagtgcga ttcaacctcc tcttctctct taattttttg cttgataagc tttgcgttct 300

catcatgtat ttctctctcc ttttctctct caataggagc ttcaatagtg agtttagtat 360

gttgtctgat gagtctagat ggctcactat cttcaattgc atcaccaaca gctccccaag 420

tcaagctatc at 432

<210> 36192

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36192

tgcaagctat taagcccaat caaaaccac gtcgtcacat acccgcacac aatcgcggn 60

cacgggtcta ctacggcaca gcccgatgta atcgagcgga acccgtaag caggccgtta 120

catccgtcaa tcggttcca atggcccacc aataaccgca gtgctcccag ccaatgccgt 180

cgtgacagct gtctcccta tcggttcca ttgaccataa tacccttcgc tatagtata 240

aacgaaccag ggtgaagcc gtaccaccgc aaccacaaca taaacgaacc aagcacaact 300

aaagacgcgc tgtggccacg caaagccaca gaccggcccgc tccggtcgaa ccgncgatt 360

ctcgggcctt caattaaagc ccccccacatg ctgctatcc cgccaaccat gtgaacaacg 420

cctgagcccgc caaagtcgat gactccagac ccgaacaaaa ca 462

<210> 36193

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36193

ngtcactgaa tcatgagaag ctgttccaag gacacacca attcctgctg tcaaaacccc 60
catgaacttg aaggaaataa tttatatcaa tctattaag gacggctgtc tagttttctt 120
agtattttat ttgatggcat ttttatcctg tatctgggtc tctttgtgtg tttatgcttt 180
cttttttctc tcatgattcc tgccatgtta atgtttataa tataaatatt ttctcacttg 240
cagttctact ttcaacatgg acgtccacct ccaaatgaac tgaaagaaga atgcttggtt 300
aaaattgatc ggctattcta tgatcatatg gatggcatgc atgtgcatgg tgagatatca 360
cacatataag tagctgatag cctgaagggc aattttgttg caactgggtga aaagtgatc 420
taaacaactt tcatattcta atgttggtata taattatgcc ctcttta 467

<210> 36194
<211> 414
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36194

agcttcaaca ttcaatttcg agcgtctcga taagttatag gactcaatca aacatccgag 60
tgaaaagtta tggtcgttgg tattgggtca aagcttcaac tatcaatttc aagcgtctcg 120
atatgttacg ggactcaatc agacatccga gtaaaaagtt atggtcgttt gtattggctg 180
agagcttcaa ctttcaattt caagcgtctc gatatgttac gggactcaat cagacatccg 240
agtaaaaagt tatggtcgtt tgtattggct cagagcttca actctcaatt tcaagcgtct 300
cgatatgtna cgggactcaa tcagacatcc gagtaaaaat gtattgtcag tntgataggc 360
tcagaggttc aactttcaat gtctagcgtc tcgatatgtt acgggactca atca 414

<210> 36195
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36195

tcaccttctg gtctctctca tagttgtggc atgataaaac atgctctatt ttcatctccc 60
actccaagta ggctccgga tcattctttc ctttaaagtg aggaatgttg agtttaatac 120
catcaattcg gttttgtcta ggaacaccat cattccctct tctctctctt tcttcttcat 180

tatgatctct attctccatt tgaaccaacc tctcatggag cgcacatct cgttgtttca 240
 ttaacctctc catatgttgc atcaaagctt gcatttggaa ttgcgaaagc cccactccat 300
 cattaggatt agtacctgac atctcaaaca aacaaatcaa acgtaacaag acaattatag 360
 ttgctgtttg aatacctcac ccactcaagt gtatcacaca attatggctn ttctctaag 420
 aaacactctn gccttttacc actctaattc cncttgagtt ct 462

<210> 36196
 <211> 545
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36196

ttttnattac gctgggcctt tgtatgntcg agatnctcta nagnagacca cgcggcaggc 60
 atgctgactt gaaggtcgtg aacaccacca tctactctt agaacactgc ngacangncg 120
 acngagagag ggatattcnc tccctctgca actggaggcg ctacttgagc tgccatatat 180
 ctccatcttt gggcgtatgc tcagaaagat ccgtgccttc tctttgcaca tgttctataa 240
 gggcatgcta tccgatgcca ttatactgac acagcctage gaacgcaacc attacgtcct 300
 tccaagactg gactcgggaa ggttccaagt gagtgtacca ggtaacagct accacagtat 360
 gactgtcttg gaagtattgt atcagcaatt cctcattctn tgtgatgcc ccactttccg 420
 acaatacatc tttagatggc tcttgaggca agttagtcca ttgacgtcgc aacgtcaaca 480
 ccttgaactt gggaagggtg atgatatcgg atactaagaa cgactcttct aggttagcag 540
 atgcn 545

<210> 36197
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36197

ggacagagat acaganatta tttgagctag atttccatat gttcaagaat tgcactgtgc 60
 attgagtcgc aatgtacaag gttcactctg agtactcata tcccaataga agttagcaca 120
 ctaatctaga agattaggat aagatttacc aatggatcat gctctaagct tcttctacaa 180

gtccatttaa actccaaaac tcaccaaagt agctcattct tcctccattt tcacaagctg 240
 gtcaagagga aaggagacaa catttccact cctttttaaa gcttttccaa gtgttcttga 300
 gcccttcttc catcaagctt aggtaaatga cctccatttt cacttctaag cttgattntt 360
 acttcattac cttgctctat tctcactcgt agtttcttat cttatttttg cactattgaa 420
 ggtagaaac tagaacctaa actccttcat tcttcttctt aaa 463

<210> 36198
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36198

agctnttgag tgcgatctat aaagcanata gatgtctata ggctttgtag aagttaagca 60
 ctgcaagaca gcattggcat agcaactgca ataataaaga gattaaaaaa aattaatgat 120
 tcagaatata ccaagaaagg aaccatatat agatttttgc aaaagtttat cttcaagtga 180
 atcanggctc attnttacat attcaagtta gatgagaagt ttgaaaacaa aaggtaaagt 240
 gagaaagttc acataagtaa ccttgaaagg gggaaacctt ccttccccc aacttttgct 300
 gacataacaa taataataat aatctagttg ttgaataagg tacagcacca cttgacaaat 360
 gacaaaagtt aatatctatt attaaatgat taaatctata tattcaacat ttctttctta 420
 tcacaatcgt agtgttttta tggtagtatt acctgttccc acaa 464

<210> 36199
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36199

cgcttaaagg tactttcata cacagtaa ataatgaggaa gaattcttct agagaaaata 60
 agttatgtat tataatgtaa aattatttta cattaatatt caattataaa ttaacatata 120
 tgataaattt gttgatattt ataataacta ccttgaaaat cgtaataata acgatatttt 180
 attagtttag tataaaatta ttttaatttg tcatgactat taaattcttt aaatatttaa 240
 tataaccacta ttttcataat gaatgatatt atgggtgatca gtgttatgaa caattttaat 300

aaatgtaa at gtaattcct tgccttaac ttcaataact tacaaattnt ataaatgtca 360
 ttgttttatt tgaataatat aacatttgaa ttaacataaa ggtcaaagga tgatcgtcta 420
 tttagcttaa t 431

<210> 36200
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36200

gtgggcctgg tggctatttg cacccttatt ataactaaat atacccctt gctctttatt 60
 aggtgaatgt tttcgtaacg ttacgaaact atacgaattt cataacgatg ctcgtatgct 120
 ttctgtaatg ttacgaaacc ttacggatta cgtaatcatc cgttttttgc ctttcggaac 180
 gtcacacaac tttatggatt ggcactaac acttcctttt aatttctggc atgtcatgga 240
 acttcacgga ttgtgctacc atgctttctt tngacttccg gcatgtcacg gaacttcac 299

<210> 36201
 <211> 428
 <212> DNA
 <213> Glycine max
 <400> 36201

tctacgacca cgacatggca aattgggggg taccttactt tattactggt aaattttgtg 60
 ttcgtaatat gttacattgg attatgatgt aaacatgttt ttatgttatg ttaaccta at 120
 tttttttgta gtgctggatc tatgagcatt ttttgagtat gcatcagttt gtcacgatg 180
 atgcgtatga ggagacgtcc cctcgtgcct cccgggtggct gatgacgaag gtcatatga 240
 agggaattac aggagcgtcg taccggggcac attgtgattc tttaacgatc acaaacgtgt 300
 gttggttgcc ttacagtgcac catcgagggg ttaggggatt tgagctgatt tcatcattcc 360
 aggggtcaact gagatggggg cctatgggtg tccagttcg atcgaaagg gtgctatgcc 420
 agtttggg 428

<210> 36202
 <211> 469
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36202

agcttaatga gtttcttggtg tgggtctcttg attaaattga tgcattgttta aaaaagtatc 60
atgtcccaga cgaaagtatt tctctattca gtgttttctg cagatatggn gaacgggatg 120
actcanaatc cataatgaca gattgctcct cttcagtatc atctgggtctg gactcagatt 180
ggtgtttgtta tatcaagttg agaatgaaag aaaaaggact aatcctatta gtagtcatca 240
gatagatgaa ctatgttttg atgaatcggt gcgatttgag acattaaatc aagtagttga 300
ggctgcgcca gattcctcta cccttgccaa aacctttgat tntgttatgt caaaagatgc 360
tggaagatcc agtgacttag canacgcaag tntgtccatg agtgagtttt cggtcanaag 420
ccagcaccgg tgcgtacaaa tgagaaacct tctggagtct cttatcaca 469

<210> 36203

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36203

tgaagagaat gcaagagaga ggataaggaa acctattatt ttaacatgga aagaaataaa 60
ggagtttata aggaagatat tcttaccacc ttattatgag aaatatgttt atgataggct 120
acaaaacctc aaaaaggta gcaaaagtct tgaagaatac cataaagaga tgataatgac 180
cattaggaaa gccaatgtac aagagcctaa aacttccata acaagggttc tatgtgggct 240
taataaagac attcgatgca ttgtgaagtt acaacactat aagagcttgg aggatatggt 300
gcatcaagcc aagaaagtgg aaagacgact tgagaggaag cattcctaca agaagaccta 360
tcaccatgac tcttcccggtg gtaaggacaa gtctaagaaa tagggatctt ccncacctgt 420
aacat 425

<210> 36204

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36204

catgctagca ttgcaagaat ttcaaaggca tactagaatg gttttctagt cggctaagga 300
 ggttcttttag ctctattcca gagacctngg tggggctatc tctttttggg ggaacagatg 360
 atggattatg aagatcttct gatactcatt acgaataaga atattttaga aact 414

<210> 36207
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36207

tgtagaatgg ctagacatga tacatgtcag ggcttggttt ggttcattga taaaagggat 60
 gccccacatt atttccatga cacaaatgca aaaaatgatg atttggaac tttatgcaaa 120
 actggtcatg catgcaccta tgcggacact caaatgtcaa atttttatgg tcatgtgatg 180
 ctagggctca ggattcattt cctctatttt aatcaacca atgtttccaa aatatgttct 240
 tttatcaatt tgtgcattca tccgagtcca tttcgggcgt ctgggaaaat cttcacagca 300
 ttcacccttc aggtgtatac acattttttt caaaaactag ttatgatcag tgaatttttc 360
 caaagaanag ttggaagtca tctcttttca aaagcatggt ggtttttcag tntgaaaact 420
 tatttttctt ttttctcctt cttctttt 448

<210> 36208
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36208

cttcattatt aagcttctaa cacacttcag acatcttctt aaagatccca accgtcagat 60
 cttggaaaat tggtttgcca aagtggagac ccaatttaaa aaagaaccca ccggttatgg 120
 aggggttgcc agtggtttta cccgaggaac ttcattgtac tttctctaaa agcctcatta 180
 gaagcctcct tagaaccttc tctagaagct tctcgtggct tctttgagaa gctttctcaa 240
 gaagctcttt gagaagctac atccttatct atccaccct ctattaacta aattaacttc 300
 ctttaaaata attacggatg aaaataacgc aacanataat caaacatcaa acataattac 360
 taataatata tagatatata tatcagggtg ttacatggag catctcgata tgttacggga 420

ctcaactgga catncgtgta taaagtattg gn

452

<210> 36209
<211> 433
<212> DNA
<213> Glycine max

<400> 36209

tctagtctca attgtgaggg tctcgatata ttacccggtt cattcggaca tccaagtaaa 60
aagttattgt tggctgaatt tcctatgagc ttcggttttc aatttgtagc gtctcgatat 120
attacaggac tcaaccggac atccgtgtat aaagttattg tcatttcaat tttctcagag 180
cttcggatct aaattttgag cgtctcgata tatgacggga ctcaatcaga catccgagtc 240
aaaagttatt gtcgtttgaa tttgatacga gcttccgttt tcaatttgga gcatccctcg 300
ataaattaca acactctgtc gggcatccga gtaaaaagtt attgttggtt gaattttcta 360
acacgtttcg ttttcaattt ggagcgtctc gatatattac gggactcaac cggacatccg 420
tgtatacagt tat 433

<210> 36210
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36210

cacttgagga aagaggaana anatattcca atttcacgca nacgacacac cgcgagggag 60
gggggaagag acagaaggga caacaccccc cccgagcaga acaccgcaa agaaaaaaag 120
agaggaacgg caaccgaaga cgcaaacaga caacgcaacc agaagcgagg gggaaggacg 180
acgaacgccg cgaaggcgga agaggccccg aagcagagga gaagncgagc gcaacgaaaa 240
agggacacgc gagaaacgca gacggcgcg c aaacgaaaa acaacgaaca cggagcgaca 300
caaaaaaac ggcgacaggg cgcgcaacac cggaggacgg cgccgaacga ggacgagagc 360
acagccagcc agcacggacg caagagacac ggaacgagga gacacggagc gaacagaaca 420
cc 422

<210> 36211
<211> 438

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36211

 cgcggaagaa tgacacgata gtttcttccg gagagtgggt ggggggctna annccncaca 60
 nccggcgggg acattatagc acaaaatgat catttcgaaa ctttatgtca cactggacat 120
 gcatgcaccc atgcctacac tccgatgtct aatcttatag gtcatgcgac gcaatgcctc 180
 acgattcaca gccccattt aaaccaaccc catgttatca aaatctgttc ttatatcaat 240
 ttgtgccttt atcctagtag cattagggcg tccgggaaaa tctcacagca ctaaccctcc 300
 acgggggtcac acactacttc catcaactac tcgtgaatcg cgatctttgc aaagaaacgc 360
 tcggcgtagt ctcttttcta acacacagcc gcttctctga ccgaagacac atctttcact 420
 ctccccact ttactcat 438

<210> 36212
 <211> 474
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36212

 agcttctaaa cntngacaag aatgaagctc tgataccact tgtagacaa gtggcctcag 60
 atatcttaag aagggggggg ttgaattaag atattcgaaa cttntcttc taattaaana 120
 tctatcttac tttntactta agttatgaat tcccttanag acaatcttct tanatattaa 180
 ttcanatgaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240
 agagaaaatg caaactcagt tntatactgg gtcggccaca cccttggtcc tacgtccagt 300
 cccaagcaa cccgcttgag agttccacta acttggaat tcctntaca agttctaaac 360
 acacaaggac aacccttcct ttgtggtaga gattctnaca acaagagact cacagtctct 420
 taatccctta gagaatgaga agaagaagag gaacanatct ctcttgaaag agat 474

<210> 36213
 <211> 441
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 36213

tggtnttggg caatagcacc ccacctgacg tccccaaggt cttctgaccc ccgcgacata 60
tctccaggta ccactctgtg gtcaacgaat aaaagcagga agtttcaccc ttctacactt 120
cctcttttca agcttgtagg attatggggg acccatcaca tgtggtacta ggtggcggtc 180
gggcgatggt gcacaacaag tttttccaca tccacaaatc gcgcataaac ccaccatccc 240
ctgttgccca cctccaactg agctcacgta gcccatatcc tcgtttctct caacaccgag 300
tccccatcaa tcctcccaag cttccccaac atccaagtaa ttcaacattc aaacagcaca 360
aactatcaca gccaagaaaa cagggcaaag gcagaaaact ctgcctaaaa caccaaccaa 420
aatcacagct tttcccactt a 441

<210> 36214
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36214

ttctctttga gtggacattt ggatatggat atatggatat ggggtggtgc cattctaagc 60
ccctatattt tccttaggtc cttatggctt cttctttagt gattaaaaga agtgttttta 120
aggtcggtac ctttcttcag tgcataaacc tctattttat tggattacaa gcatgatcat 180
aatcgataca caagtgtttg tagctggtag agaagttttt tgtatcgatt taatctatta 240
caagctaatt gtaatcgatt acatagttcg gntgagacaa tgggtgggtt tcaggagtct 300
gctntaatcg attatcagat gatcatnnat cgatactttg ctcttttaaag tgtcccagaa 360
gtgatcaata acacttttat cgattganat gattatatan tcgatcactt ctttttgaat 420
atcgattaca ttgggatatt aaatcantat aggtgggtt 459

<210> 36215
<211> 483
<212> DNA
<213> Glycine max

<400> 36215

aacatcatag aaactcaagc ttctacttat gtttgtgagc ttcattgtaac tacaactgca 60
atattcaagt ggcaccacta ctttttgggt catcctttca tcaccttgac tgatcaccaa 120

actatgctcc cttgctttcc aagattactg gcctgattca gggatggagc aggaagtctt 240
 tatcttatgc aggtaagcta gagttgatca gagcagttat tcaaggaatt gtgaatttct 300
 ggatggggat ttttcctttg cctcaatctg ttctggaccg gatcaaggct tcatgccgta 360
 attntctgtg gggcaaagcg gatattggca aanacaagcc cttgggttgct tggtcagtag 420
 tttgttctcc gaaaa 435

<210> 36218
 <211> 560
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36218

acgggggnaga tgcctgtcna ctcgcatgnt ctngangatc ttnaanagac cagcctgcat 60
 gcatgctagc tcattgtaac tcgacattaa acatcattat tgtttactaa gatgagactn 120
 cgaattgaga cgtgtaatgt gagtggttggg gcctattata ttcacaatac taattcctca 180
 aatttaaaaa atgatattac ttgtcgactt aagttatggt attatcgcta aacatctcaa 240
 ttacaatgtg tgagattaat cgaatgtgat ctcgtacttg tgatgtgcaa tatataatca 300
 catcttaaca attaagacac aattgaattg attaaatgcg aacatcagaa caaactacac 360
 taatcatcct tgagattctt gaaactacca tttttatcgg ctctctatct ctaactaatc 420
 ttgcttaatt gtgtgaaaaa tattacacgg agataaagct gctattgatg ttaaaaaata 480
 tgacgagtta tgtaatctcc aatgttttac aaatattagt gcaatcaagt aaaataaagt 540
 tgcaaattat tatcaatccn 560

<210> 36219
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 36219

taaagataaa ctaagaataa tgataaatat atgattagat attcgatcag tattattagc 60
 ctagctaadc agtttgattt tgatagaata tattatcaga atataagata agatattcta 120
 tcattattct tagtttatct ttaagcttgt aatcctttat ataagctaata gatgcttaac 180

gaaaggggag agaaaaatat tttttccctc atcccttgag ctaggttttg gggttgagtt 240
 aggtctctca cattatacgt tagagcctta ggcctttct ttggtttcg cacataggcc 300
 ctagegccat tcagccctt tctttttctt ctccatcatc atgtctcact caaactctat 360
 ctttcacact gcttttggtg tctccaacat caataatcat atcccaatca ttcttgagat 420
 gaaaaatatc caatacgtga catggac 447

<210> 36220
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 36220

actttggcat atacaatgac tccagtttca accacattga ggctgctgtc ttttctcttg 60
 caacttctct taaagcttta tctccaaaga tataatgaat gcacttctgg ctttatcaat 120
 catctctgat ttctcctttg agcttagaga ttcagacata ctttcttctc cttaagagc 180
 ttctgcacaa ccatgatgaa tcaagaatgc tttcatcgtg attctccata acccaacagc 240
 attttccctt gagaactctc tatatcgtac tatgtgtccc atctttcttg atctgacctt 300
 tcccacaacg acgccacttg tgggtctagta t 331

<210> 36221
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36221

tcgacataat ctacaagctt cgtatggtct gaaacaggta taatggcatg gtataaggaa 60
 attgacggtt atcttctaaa aagaaggttt taagaagagt gaaaatgaag tcactttgta 120
 tgtgaagtga taaaaaatg aagtgcaact cattgtttct ttatatgttg atgatttatt 180
 ttttatatat agggatatcaa attccttaaa ccaaatcaag aatgatatat atgaagaaat 240
 ttgaaattat agatttggca aaaatgaaat ttggaatgga gatctcacta ctagaaaatt 300
 ggcgttttac gacacagaca ctacgacgat tattgnggaa cgccttana aagatgtgcg 360
 gtggcttttt tgtaattatt tgaacaatat taggatttta cgatattaaa tttaagacgg 420
 ttattaaa 428

<210> 36222
 <211> 308
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36222

 atctgctccc actccatgag ggatgatcaa attgagttgt gtcgctgttc ttcggtgttg 60
 tcggccattc agagcggttc agagaaagag agaagggttg gatctacggt ctgacagagg 120
 aataattgtc agagagagag ggagaaagca ttgcggacaa acaagagtga ataggcagac 180
 ggaagtgaag aattagtgcc acgttggata gtccacgtga cactaanact accaacaatg 240
 cacctcatta atggtgttac ttacaaaatt aacagaatga ttatattgcc aaacttatgc 300
 aatgatta 308

<210> 36223
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36223

 tgtcatactt tgtccaanaa agagaaaatc agtttttgcc tgtgtctgcg ccgggttaaa 60
 gtctacaag gatactcttc aaatattaag agccttgtgc agttgaagaa gcttaaccta 120
 gtgggggttaa agtctcatga ttgtcacatg ttgatgcaac aattgttagc cgtggccata 180
 cgagacattt tgcctaacia agtcagggtta gccataactc gcctgtgctt tttcttcaat 240
 gccatgtgta gcaaagtcct tgatcctgtc aagtttgatg acctggaaaa caaggctaca 300
 attatactgt gccagttgga gatgtatctt cctcctgctt tctttgacat catggtccac 360
 ttaattgttt aactggtcag agaaatcaaa tgttgtgggc ctgtatatct gtgctagatg 420
 taccgg 427

<210> 36224
 <211> 454
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

[illegible]

<210>	36225
<211>	423
<212>	DNA
<213>	Glycine max

tgtagcagcg	gatttctttc	ttctcttcac	attcttatga	attctcagta	gtgtccagat	60
tctcattttt	cggttactca	acgtgcggtc	acataaatgc	accatgcaag	tggttgtgaa	120
cggctctcag	tatttataat	ggcacaccaa	tgctttcatg	ccaattgcaa	aatcatggaa	180
atattttttt	taaatatggt	tggtcctcta	aaatttgaaa	aatatatggt	aacctctata	240
aaagtaaaac	atatttttgc	tgattcttat	ttgtaacttt	gtagacaat	tttctattat	300
attgactaac	acatttaggt	atcttctctc	tctacatcct	caaacacatt	cacatgatat	360
caaaattcat	cattgtttca	ttttttctct	aatctcatga	aaaagtgcga	aaaatttaac	420
tat						423

<210>	36226
<211>	216
<212>	DNA
<213>	Glycine max

tatgccgtaa caaaacctaa ctactttgga gctactccct gattaaatgc tttgatgttt 60
gaacttattt gaagtttggg aagtatcgac taagcataga atctggacac agtcactact 120

ccacagttgg gcgtttgctt gcaattgaca ctggtggcct ttgtacctca gaggaagcat 180
 aaaatggatg agcgttcata agaaacaaat tgtctt 216

<210> 36227
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 36227

tcattgagaa gcaagtgtta caccctcca atagctaagc tcaccctat gccaaaatac 60
 atgaaggaag aaagcttcct tgagaagctt tcttggaag caagtgttac accctccaa 120
 tagctaagct tagcccatg ggaacacatg cccctccaat agctaagctc ccccccccc 180
 gccccccaca ccaaaatata taaaaatata aaaaaaaaaa tcctactaca aagactacta 240
 ataatgcctt aaaatataag gctaaaaccc tatactacta gggtagcctt aacttgtacc 300
 cttaatttgt agggtagcct acaaacctaa aatggccaaa atacaaggcc caaagaagg 360
 aaaatctatt ctaatatcta caaagaaaag tgggttcata cttaacctat gggcccaaaa 420
 tctaccc 427

<210> 36228
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36228

aaaccatgga aggcaaaatt ggattggatt atggcagata taaaattagt taaacaaacc 60
 tgccaattag gggttntgcg gatttttgca aattcctccc ttgtttctgg atcaaggcca 120
 tacttgacta taggatcaga tatttgctga ccttcattgt cagcaaagac aaattttgaa 180
 gtcaatgaag acttaaatng cctccatctt gctgcaactg ttgacatcac cttctttttt 240
 gcattctcac cttcagggat atcaaatntg cgctgcataa canaagggtg tatgtaacag 300
 taggtaaagt aatcctttan aagtaactta acaacaaaat caagaatgga agtgtattta 360
 gaatgactta ccanaatatc tttccatatt aagctcttta gatcgtcngn gacaacat 418

<210> 36229
 <211> 446

<212> DNA
 <213> Glycine max
 <400> 36229
 taaccaattc aggataaata ggcaattgta atgacataaa atgattatga cctaagttct 60
 gaaaggcttg aatgcaatca aaggtttcat cagaaaagaa ttccatatca ataaacttag 120
 ggtcgataat ggaacgagat gagaaaagat tggagtaccg tttctgctgt tcgtcggaag 180
 aaaacaatgg ggaagaggac aatgaggatg gaattggtgc tgtggatgcg ctagtggctc 240
 cggaacgatg agcacttgaa gccgaagcgg aggcggaaga accctttcgt ttctttgacg 300
 attctgccat ttgaaggagt ctttgcagat ttcaatcggg gaaatcaaaa gaaaaatgaa 360
 aaagaagaag attgcaattt acgggagttg atttgatgaa gaaattagta agatacgaag 420
 gtttggaggt ttgggaatgg aggaac 446

<210> 36230
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36230
 caagcttggt ccattttcct gactcaccat anaccttgac ccaggggtgag aatgccaatc 60
 cttaccctcg gaagcanaca ataggagaga gagagagaga gatgagaagg agaatttccg 120
 atcaaaggat aaaggagaag gataatttcc aatcaaagga taaaggaaag gaaattccca 180
 atcaaagagt gggggaaagc acaaagataa gaatgagaat tcccaatcaa agaatgggag 240
 agagaacaaa agagagatgt aaaaaagaag atatctcctg gtcagagata ccagatgata 300
 tgtgccgaga ggtccttgga ccagacaata tctgaacaat acagaattgt caccaaata 360
 a 361

<210> 36231
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36231
 ntctccacta agtagcctga tgctgaaat gtcttttctg attgtgtggg cctagatgca 60

gggaagattt tctccaagaa caccctctta aggtcatccc agctgaaaac ggacctggga 120
gcaaggtagt atatccaatc ttttgtcact ccctccagag aatgaggaaa agcctttaga 180
aagatatgat cttcttggac atcaaggggc ttcattgttg aacaaaaaat atggaactcc 240
ttaagatgct tatgaggatc ttcacctgca agaccatgaa actttggcag caaatgtatt 300
actccagtct tgagaacata tgaaacaccc tcatcatgat attgaatgca caagctttca 360
taagtgaaat caggtgtagc catctcccta agagtcctct tacgagggtg aggttgagcc 420
atgttctcag tatgaaaa 438

<210> 36232
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36232

ngatcttttt gtaacgacac gcacacgcaa agggagagag aagcaaagag cagaccccc 60
acagcngcca cnccgaacna gacacatact cccctatgg gcaacagcaa gaaatgcggc 120
gcgcacaaga acgagaacca ccatccaaca gagagggact cggcagacct cgaccatcca 180
acgctcagaa cgcgacgggc gaagtagaca ctccgacct gaaccctgat aagaccacaa 240
acagccgggg cacacagaac aaaacagtcg acacgaggca caaccacgac cgcggaacca 300
cgtgaaaaca agccggacca aaaagcagca gcgacgaaac accgcgcggc aggaaactaa 360
aggagggacc cgcaaact agcctgatag agaccagacc agcagaagca tggcacagac 420
acgcgggaag ccccg 435

<210> 36233
<211> 314
<212> DNA
<213> Glycine max
<400> 36233

ggagtgtca gggcgagggc agagaaccag aagagactct ctcttcatga cacggtggag 60
caacacgacc gatggggcgc tttatagcgc aacatacatc ttctaaattc atcacgaaat 120
gagaccgca ataacacagc gacacccgag tgtgaagact aatattgccc tagaccatgc 180

cgaactggcg cacatatata caacagctca aatgtggcct tgtgctacat aacaccatgc 240
ctcacacatt cccgtatgaa taaccgaacg atggatgatg caatccatgc tctggtgctg 300
ccttaactga tagc 314

<210> 36234
<211> 527
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36234

nggcgttgct attcttttta gnacgncaan nnacncagac acgcggagct ctnagncgac 60
cgcaggctgg cagcangtat cttattctag aagnnnnaaa cgnengagag gggcctagag 120
aaacnggcaa ccaacaccca aagccgggaa nggagnacaa cnggggggga ancganaacc 180
aacaggagaa tncanacnnc aagncggaag agacacaccg ctgcagaaag aactgagcaa 240
ncgagnacaa cagccaggca ancgacaacc aaaaaggaat cancgaaaat aactcccaag 300
agtcacaact gtgcanattt tatttgaatg gtcacatcgtg gcctataaat caattaccag 360
acatgaaaat tcaaatatca agtctgaaga gtcacaactc tttagagact atttgtgtaa 420
tcgattcacc aattatgtaa tcgattacca gtacggaatt ttcgaaaata actcacaaga 480
gtcacagcta tgcaagaagt tgtgaatggc atcactgcct ataatcg 527

<210> 36235
<211> 362
<212> DNA
<213> Glycine max

<400> 36235

agtgtcggct tgtggggcca cactggaatc cgcttcaatg gttcctcttt ctagaccact 60
tcgcggggag ctggttcgta gccaatctta ggttgccctc tactagcact tctttaacgt 120
cttgagccga acgcgtgatg acttgctggg caggggccta gtacttttgc ttaccttagg 180
ctttggactt ggctgcctgc tggctggcca tgggtcgtag gcaacgctcc agcctttgta 240
gatgatctga ggggctttgg aggtgggtggc ggtgtgtatg ttgcccgtg cgggtcatac 300
cctagctgct gaggtgtttc gccctgcgcc tgtcttgtgg cacagtactc tctgatgaaa 360
gc 362

<210> 36236
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36236

gtcgtcttcg caagacacag acgatggcgt catgtatatg ggccatagcc ctagatcacc 60
 gctgtacaga cagagccaac aacactacaa tacagcatgc ggtggctcat gtctaagcgg 120
 aacaagaggc cacatgaaag atcatgaact catttcacat gatgcgacca tgctgacgga 180
 gcggctctgtc tcaccctgat ctggacttga gatcttcacg attgctgcta acggacacga 240
 gacgnaaca gcgatttctc acaatataga ttctggaccc ccgctattga acgtttggtc 300
 actcacgccc cactgaagta catcaagatg ctgaaaggca tacgaatgat agatgaccta 360
 cctaattgga atcaatagac cctgggttacc aaagaactga caatgacg 408

<210> 36237
 <211> 195
 <212> DNA
 <213> Glycine max

<400> 36237

tgagctctat cacctgcact gtgctctctg atttcagaca catatcctgt ctgaccctcg 60
 cctgacgagc agcctgtctt catctacgtc actcgcctta tcgaccacca catggctggc 120
 tgcggggccac tctaattgat ttccatcaaa ccgtgccagc aatcgcgcc tgacaccaat 180
 atcttgaatg accat 195

<210> 36238
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36238

agcttctgtt gtgacatctt gacttgcttc ccaatctgac attcaccaca gattctgcct 60
 ttntctatct tcagattgag aatgcctcta acagcacctt tgtcaatgat tntcttcacg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcacg ttctttggag 180

gatagacatg tggaggagta actggtttct tgaggtgtcc ataggtaaca gttgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgactnt 300
gtgaagttta cattgaatcc ttcattcacac aactgactga tgctgatcaa gtntgcagtc 360
agtccttca ccagcagtag tttgttcaga ctangaagtc catcatggac tagctntccc 420
attccagtga tctt 434

<210> 36239
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36239

ttgagccaaa atcttgactc accatagacc ttgaccagg gttataatgt caatccttac 60
cctcgaaagc aaaaaagaaa agaaggaaaa tttccaatca aagagaaagc aaaaaagaaa 120
gagggaaaat ttacaatcaa agagaaagca aaaagaaaag aaaattccca atcaaagaat 180
gggagaaagt aaaaaaggaa gaagaagaag gaaagaaatc tcttgatcaa ggatcgaaag 240
aaaacagaag aaatgtgcag aaaggtcttt ggaccggaca atatctgaac aatacagaat 300
tgtcaccaaa ggaacgaaaa gaaggaaagg aaaccatgac ctanagtggc catctccctt 360
taattgccaa ccaaaatctt gtgtgctagc gactttttcg ccccgacta naccaaaaaca 420
gtaaaggaaa taatccataa aagggcataa aaaaagaa 458

<210> 36240
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36240

agcttgatg atgcttcatt ggaggaaaag aaagaggag ataaagatag aggtgggagc 60
acgaaattga aggaataana gagggagaga agtggaaact tgatgaatga gagtgatgca 120
agctccattg gagcttgat gcctangatc ttcttcatca gtggattcct ttgcttcttg 180
gaagataaat ggccgaggaa tggagaagga agagagagag gagacgccgc ttcaatgaga 240
agataagtct agaagaagct caccaccata cgaggccatg gataagagct tggaggacga 300

aagagatgaa tgaagggagg tggagagaag agcacgatat tctgtgctca gatagagctc 360
tgagatctaa agttaatatt canatgatca 390

<210> 36241
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36241

cttcaccttt ggtcctcctc atagttgctg catgatataa catgctctat tttcatctcc 60
cactccaagt aggcctccag atcattcttt cctttaaagg gaggaatgtt gagtttaata 120
ccatcaattc ggctttgtct gggaacacca tcattccctc ttctcctcct ttcttcttca 180
ttatgatctc tgttctccat ttgatccaac ctctcatgga gcgcatcatc tcgttggttc 240
attaacctct ccaaagtgtg catcaaactc tgcatttgga attgtgaaag cccccctcca 300
tcattaggat ttgtttctgc catctcaaac aaacaaatca aatgtaacaa gataattata 360
tgtgttgtn gaatacctca cccactcaag tgtatcacat aattatgact tgtctcttat 420
gaaacactct tgccttctac cactcta 447

<210> 36242
<211> 495
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36242

cggcgctttt attttttagn ctagccaatn ncacacggac ccgggatcct ctgagncgac 60
ctgcggcang caagcttatt tttttaanaa aaagcnnnac accaaggggg ggggagagga 120
gaanacaaca ccccccccc agaacggaca ccnnggccca ccaccaagcc agaaacaana 180
ggagnagcag gcaagcgaaa ccagaggaag ccacnncng cngaaaaagc cnggcgaaac 240
ngcaccanaa caangcgagg aggaancact cgaancgng cganaaaaa aagccacaaa 300
gccgcaagaa ggaacgcngc acnaacctcg gagggggcgn acacgacagc gcagccgcca 360
cccaaggag ccaaacgaac acgncgcca aaggggggaa cagacggcaa ggcaacaacg 420
cgggagcgaa aacaccaaag cgacaaaccc gggaccagaa gcaagggcga cccaccaga 480

<210> 36243
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36243

ttagatactc agcttgatgt cttcaaacac aatatgtaga cctaaatgaa gatatacttg 60
 cattgnttat gtaattgtat gcattatgcg atataatttg ttgtaaccga ttactaacca 120
 attaataatta tcaagtactc gtttggttaa gcaaggaaat tgttggtcca acaaaaatca 180
 ttacacgtg cagcatacat cattgtcata attgacaaca cataatgaca tgcattgcgt 240
 ttacagtttg agcgcgacaa cacattggct gacttgacta cacattggcg acaatacatt 300
 ggttgacttg actacacatt tacgcgtgtc tatttttatg taaacaaagt taaacaaatg 360
 ctcggtcaca accatctata tatatggcag actacgtac taaatcacat attatctagc 420
 tttcaaataa tc 432

<210> 36244
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36244

acccatataa tngctaagct caccgctgc caaaatacat gaaaatataa aaaaagtacc 60
 tactacaaag actacttata atgccctgat atacaaggct aanatcctat actactagaa 120
 tggccaaaat acaatgccca taagaaagac naacctattc taatgtttac aaagaaaagt 180
 ggaccaacc ttggcccatg ggctcagaaa tctatcctga ggttcatgaa gacccaggg 240
 ctttctttag caactctagc ccaatcctcc tggagtcttc tatccaatac cgcttggggg 300
 taggatngca tcatcccctc caccttgnnn aaggatttac ctcanatccc gaggttttca 360
 tactctcaat cttcctcac acct 384

<210> 36245
 <211> 429

<212> DNA
 <213> Glycine max
 <400> 36245
 ttgcatgttt agaaagttct aaagagagaa aggtccatgt ttcattgagt tctaagagat 60
 tttgctatgt gaagatctgc agagacgaga gctcgaagcg gaagctgttc tgagagcttg 120
 agatgagttt gtgagtgatt gtgagatcct agaggtgaag gagacatcct caccacttgt 180
 atttttgcaa tctttcatct tattcttctc tatgttgtaa aggaggtttc cagactatgg 240
 aaagctaaat cctctgttgg atcttcctta taggtacttg atgtaaatat atttctatct 300
 atgtaatgat gttttgtgca ttctctgtgc tatctgcttt tcattccagt atgcctttac 360
 cttgatcacg tagatgcatg ctttgttagg gtcattcaac agggaaactg gtttgattct 420
 aaagtcctt 429

<210> 36246
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36246
 agcttttgatt aaaacaatta tctaatacatt acaatgcatt caaattatac aatagctcat 60
 tcaaatacatt cgtagacact catttcatac aaaacaatcc actgcatatc attttcaacc 120
 aattcactgt tcaagcaagc tttttgtaca agcaatcaac tcaaagtact gaaatttaaa 180
 gaactaaaac atanacacta naatttaaataaat gaatgaacat caatcataaa ataaatgaaa 240
 ataactaana tgttcanaat gcacaaatct aaatgtcctg ctctgtggt tgctcatgtg 300
 catgctcatt gagatccaac acctgagtag ctggtgaatc ctgagggata ggctgctcta 360
 gctcagatgc tagtgcanat ggtatgacat catcangtat ggggtactgag gatggctctg 420
 ggatctggtc tctggaagtc 440

<210> 36247
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 36247

tgaataccct gtatctaacc tttattcaat cttgttcctt ttagaccaag gatttcagta 60
acctcattgg agaagaaacc taacttccca atgggtcagt gttcaatggt agtatgatca 120
gttaagcctg ttcctcgata acttaaatac atctccagct caaattgatg aaaaaccaag 180
catgacaaag accatagaca ttaagggggg aaaacagaaa aggctgagaa gttaaact 240
actgcaaca agagcattgg cagttacagg tatgggatgg atagtccaaa caatagcaga 300
ctatagtata attggctttt ctaactagct caatctctct cattttgaag atattaagct 360
agggaattca ataccaaaaa tatttcagtg tccagtgaat agacattttc tcttaacaca 420
tcatg 425

<210> 36248
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36248

agttatcata acttcggana canaactnnn gggcgctgcg agtggaaatn ctatagagaa 60
caaacgcgtg ctatcttttc ttccttctct ctcttgccaa aagattaaaa tgactaaccg 120
cctgagaatt ctgttgattc ttccttctcc ctcttgccag aagaattcca ggactaaccg 180
tctgagaatt cttttgattc ttccttctcc ctttgaacaa aagatttcaa aggactaacc 240
gcctgagata tcttttggtg ccattacaa agattcaagg gactaaccgc ctaagaattc 300
tttgtcttaa cacattggag cgtacatcct ttgctgtaca agtagagcgt acatctactt 360
gngttgtaat acagagaata agagacggta catctcttgt ggtcagttca agggagtgc 420
atccactggg ttcaagagac 440

<210> 36249
<211> 421
<212> DNA
<213> Glycine max

<400> 36249

gtcatcaaga agtactacgc ccacaggcag gcgcatggcg taacaccaca acagcctggg 60
gatggccagc aacatgcaac aaatgcaccg tcgccacctc cagagcccct cagctcatcc 120
ataaaaaggt tagagtattg cctacgacac atggccgacc aataggcgac caagtccaaa 180

gccaaaggta agcaaagtac taggtccgtg accgacaagt catcaggcgt ccagctcaag 240
 acgttaaaga agcgctacta ggaggcaacc ttgtaacttt taaatttctg cttgttattt 300
 gatcaccttt tgtttctcaa gtcatagtag gacacaccta gttgctcatg atcctaggaa 360
 tttaaataaa acgagcacaa gctcgggagg tagtcatacc tcacaaaata tatatatgta 420
 t 421

<210> 36250
 <211> 526
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36250

aaanattgt aggtacgtan ctccggcgaa ttcagctcgn accccgagga tctntagaag 60
 cgaactggca gcgtgccagc tcttctatan tattctatat gtgcccgaa nggcccacga 120
 tgnggttcga gcgcatttat tctcggtttg gttacctttt atacccttc ttgacgtgcc 180
 taagccggtt tacctaagac gggtctcgcc taacctaaaa ataaaataaa tttccacccg 240
 accgttgga tggttattcc attacctccg gttaaattaa attccaaccg tccggcgggg 300
 ccggaccacc gttggaatta aaaaaagaag gtgaaaatta tattattatt caaaaatatt 360
 ctttttagta aattaaagcg gaaaatcaat cgggacgttt ctcttttggg attctcattc 420
 ttaatcgaga tgataataac taggtgagac tanggctaaa tcaactcgta gtcagctcgt 480
 cacaaaaatt gctnttgagg ttgcatttca tttctactaa gtaaag 526

<210> 36251
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 36251

ctggcattgg aattgcgaaa gcccactcc atcattagga ttatttcctg acatctcaaa 60
 caaaciaatc aaacgtaaca tgacaattat agttgctgtt tgaatactc acccactcaa 120
 gtgtatcaca caattatggc ttttctctaa tgaaacactc ttgcctttta ccaacttaat 180
 tccccttgag ttcttaggca attcaagaga ttatggccac aacaaagaac aattcaccaa 240

tatgtgtaag gtaaggctag acaaggaaaa ggtaaccaa gaaaaaggct aacaatgttt 300
 ttaggcacaa atgaaggaaa caaaattcag aatttaggaa ttcaagtaac aatccttcat 360
 gcaaccaata tattacctta aagagttttt ttttttaagt tcttcaagca tgaaccattc 420
 agcccaattt tttttttttt ttaat 445

<210> 36252
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36252

ctttccttcc ttctctctct tgccaaaaga taaaaatgac taaccgctg agatttcttt 60
 tgattcttcc ttctccctct tgccagaaga attcanagga ctaaccgtct gagaattctt 120
 ttgattcttc ctcttcctt tgaacaaaag atttcaaagg actaaccgcc tgagatatct 180
 tttgtttccc attacaaaga ttcaaggac taaccgccta agaattctnt gtcttaacac 240
 attggagcgt acatcctttg cggtaacaagt agagcgtaca tctacttgng ttgtaataca 300
 gagaataaga gagggtagat ctcttggtga tcagttcaag tggagtgtac atccact 357

<210> 36253
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36253

ntcatcaaga agtactacgn cccaggcag gcgcagggcg taatacctca acagcctgng 60
 gatggccagc aacaggcaac aaatgcaccg tcgccacctc cagagccctc cagctcatcc 120
 ataaaaaggt tagagtattg cctacgacac atggccgacc aataggcgac caagtccaaa 180
 gccaaaggta agcaaagtag taggtccgtg accgacaagt catcaggcgt ccagctcaag 240
 acgttaaaga agcgctacta ggaggcaacc ttgtaacttt taaatttctg cttgttattt 300
 gatcaccttt tgtttctcaa gtcatagtag gacacacctt gttgctcatg atcctaggaa 360
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<223> unsure at all n locations
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 tgggccaatc cgcccccgct tcttacacgg accanataaa ttggccatcc ctgccccgcy 360
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<211> 451
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<212> DNA
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<212> DNA
<213> Glycine max

<223> unsure at all n locations
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<211> 444
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<223> unsure at all n locations
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<223> unsure at all n locations
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1. **THE** **UNITED** **STATES** **OF** **AMERICA**
 2. **DO** **HEREBY** **DECLARE** **TO** **ALL** **PEOPLES**
 3. **OF** **THE** **WORLD** **THAT** **THE** **UNITED** **STATES**
 4. **OF** **AMERICA** **DO** **RECOGNIZE** **THE** **PRINCIPLE**
 5. **OF** **THE** **RIGHT** **OF** **SELF** **DETERMINATION**
 6. **OF** **PEOPLES** **AND** **CONSIDER** **THAT** **THE** **PRINCIPLE**
 7. **OF** **THE** **RIGHT** **OF** **SELF** **DETERMINATION**
 8. **OF** **PEOPLES** **IS** **A** **PRINCIPLE** **OF** **GENERAL**
 9. **APPLICABILITY** **AND** **IS** **NOT** **RESTRICTED**
 10. **TO** **ANY** **ONE** **CLASS** **OF** **PEOPLES**
 11. **OR** **TO** **ANY** **ONE** **AREA** **OF** **THE** **WORLD**
 12. **AND** **THAT** **THE** **UNITED** **STATES** **OF** **AMERICA**
 13. **DO** **RECOGNIZE** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 14. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **AS**
 15. **A** **PRINCIPLE** **OF** **GENERAL** **APPLICABILITY**
 16. **AND** **CONSIDER** **THAT** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 17. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **IS** **A** **PRINCIPLE**
 18. **OF** **GENERAL** **APPLICABILITY** **AND** **IS** **NOT** **RESTRICTED**
 19. **TO** **ANY** **ONE** **CLASS** **OF** **PEOPLES**
 20. **OR** **TO** **ANY** **ONE** **AREA** **OF** **THE** **WORLD**
 21. **AND** **THAT** **THE** **UNITED** **STATES** **OF** **AMERICA**
 22. **DO** **RECOGNIZE** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 23. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **AS**
 24. **A** **PRINCIPLE** **OF** **GENERAL** **APPLICABILITY**
 25. **AND** **CONSIDER** **THAT** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 26. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **IS** **A** **PRINCIPLE**
 27. **OF** **GENERAL** **APPLICABILITY** **AND** **IS** **NOT** **RESTRICTED**
 28. **TO** **ANY** **ONE** **CLASS** **OF** **PEOPLES**
 29. **OR** **TO** **ANY** **ONE** **AREA** **OF** **THE** **WORLD**
 30. **AND** **THAT** **THE** **UNITED** **STATES** **OF** **AMERICA**
 31. **DO** **RECOGNIZE** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 32. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **AS**
 33. **A** **PRINCIPLE** **OF** **GENERAL** **APPLICABILITY**
 34. **AND** **CONSIDER** **THAT** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 35. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **IS** **A** **PRINCIPLE**
 36. **OF** **GENERAL** **APPLICABILITY** **AND** **IS** **NOT** **RESTRICTED**
 37. **TO** **ANY** **ONE** **CLASS** **OF** **PEOPLES**
 38. **OR** **TO** **ANY** **ONE** **AREA** **OF** **THE** **WORLD**
 39. **AND** **THAT** **THE** **UNITED** **STATES** **OF** **AMERICA**
 40. **DO** **RECOGNIZE** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 41. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **AS**
 42. **A** **PRINCIPLE** **OF** **GENERAL** **APPLICABILITY**
 43. **AND** **CONSIDER** **THAT** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 44. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **IS** **A** **PRINCIPLE**
 45. **OF** **GENERAL** **APPLICABILITY** **AND** **IS** **NOT** **RESTRICTED**
 46. **TO** **ANY** **ONE** **CLASS** **OF** **PEOPLES**
 47. **OR** **TO** **ANY** **ONE** **AREA** **OF** **THE** **WORLD**
 48. **AND** **THAT** **THE** **UNITED** **STATES** **OF** **AMERICA**
 49. **DO** **RECOGNIZE** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 50. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **AS**
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 57. **AND** **THAT** **THE** **UNITED** **STATES** **OF** **AMERICA**
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 60. **A** **PRINCIPLE** **OF** **GENERAL** **APPLICABILITY**
 61. **AND** **CONSIDER** **THAT** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
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 63. **OF** **GENERAL** **APPLICABILITY** **AND** **IS** **NOT** **RESTRICTED**
 64. **TO** **ANY** **ONE** **CLASS** **OF** **PEOPLES**
 65. **OR** **TO** **ANY** **ONE** **AREA** **OF** **THE** **WORLD**
 66. **AND** **THAT** **THE** **UNITED** **STATES** **OF** **AMERICA**
 67. **DO** **RECOGNIZE** **THE** **PRINCIPLE** **OF** **THE** **RIGHT**
 68. **OF** **SELF** **DETERMINATION** **OF** **PEOPLES** **AS**
 69. **A** **PRINCIPLE** **OF** **GENERAL** **APPLICABILITY**
 70. **AND** **CONSIDER** <

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<213> Glycine max

<223> unsure at all n locations

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 tatcaciaaac tacctacaca tatttgaaac atatatacata caaactttta ttgtttcact 300
 cacatttatt tatatgcatg ttggaaagct aattacgtca tgcacacact tgcattcaaa 360
 agggaattcc atgccatcat atattcattt aggaagcgac ctcaatattc atttaggaag 420
 atactcgttc acactntgca aggaattt 448

<210> 36278
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 36278

tacttgcctc atcactgagg attttatcta agaaataagt atgcaaagag gcattcattt 60
 tgttggtgg catcaaataa ctttcccca aaagctatgg ttgcctcaat gtttttactt 120
 gcggaaatga atattgcaat gcaagactca ttggaatcgc aacacagtat atcaaaactc 180
 tatgtccaaa tccttctcaa ggaatatggg gatgtctctt tttagatcat accagccaag 240
 gatcaacaa 249

<210> 36279
 <211> 441

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36279

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agggccgagg gagctcttaa agccnattct taaaaggccc aagataacac aaagactcta 120
taaaatgaca cctaaaataa aagtccacta atgattccac acacatgatt atgaaaaagg 180
ttcatcatat ggaccaaata caaaaagtgg tcaaattacc aaaataccca acaaaagcct 240
attctaattt tgggtttacat tatgccactt taattcctag acatatactc catgctctcc 300
aagtgcacgc gtcttccttt acatgcctct tggatattga cttagttaat ggtcccaaac 360
ccttccttc aagtactaca tcttgggtct taaggctatc cataagtga tctacaacat 420
tacttaattt atttttccta t 441

<210> 36280
<211> 93
<212> DNA
<213> Glycine max

<400> 36280

tgtgatcatt agcaacattg agtggattgt tcctaagatc ttttgacaac atttaaaaaa 60
tggttgccaaa tatgaataaa tggttactaat atg 93

<210> 36281
<211> 444
<212> DNA
<213> Glycine max

<400> 36281

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acgctgggtt cttggcggtg tctcgatacc ctgagtgggt ggccaacatt gtgtcggtcc 120
ctaagaagga tgggaaggta tgaatatgtg tggattatcg ggacctaaat caagccagtc 180
ccaaagacaa tttccctcta cggaacatcg atgtcctcgt agataacacg accaattttg 240
ctttgttctc catcatggac gggtttctcag gctacaatca aataaaaaatg gtactagagg 300
atatggaaaa gaccatgttc gtcaccctgt ggggaacgct ctgctataag gtgatgtctt 360

ttgggctaaa aaacgctggg gcaacctatc aacgggctat ggtggctttg ttccacgaca 420
 tgatgcaccg agagatcgaa gtct 444

<210> 36282
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36282

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 ccggatttat gttttttatg ggtgatttg tttttacatg gagttctaag aagcaagcca 120
 ttgtgacact ttctacttgt gaagccgagt atgtagctgc aacttcttgc acatgtcatg 180
 caatttggct aagaagatng ttgaaggaac ttcacttgtt gcanaaggaa aacacaaaga 240
 tctatgttga taatagatct gcacaagagc ttgccaagaa tccggtgttc catgaacgaa 300
 gtaagcatat agatacaagg tatcatttca ttagagagtg cattgccaag aaagaagtag 360
 aattgactca tgtgaagact caagatcaag ttgtggatat tntcaccaag cctctc 416

<210> 36283
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36283

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 cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttgagct ttggaattgt tttgggaata agtgtggggg ggtttttgtt 180
 tcattggaca acttgttttg ttggctatgc ttcattgatg attttgggcc atacttgatg 240
 tacattgtat attggttaaa tggtgggctt aatccggatt ttggttgtgg acttgaagag 300
 ggcaaataaa gcagcgctta gcttaattaa tttctaatta ggaaacttcg caattttatt 360
 ttatgttgtt caatgtttat ttcgttcttg gccaaagtat tggaatatgg cccagtgact 420
 ctgagtgact ctttat 436

<210> 36284

<211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36284

agcttgccctg nctgtgcagc agtaatgatg gcccgagtga tggtgtggaa cggttacgaa 60
 cccggaatgg gtttaggcaa agacaacggc ggcataacta gcctgataaa tgccanagga 120
 aatcgtgaga agtatggttt aagctataag ccactcagg cggatatgaa gagaagcatc 180
 gcgggaagga agagcgggtg tcaaagctcg tggtggagac aagaaagtga aggaagccccg 240
 ccctgccaca taagtagaag ctttataagc gcgggtctgg gagacaaagg tcaagtggtc 300
 gtgatatgcg aagatgatgt tccgagtaca ttggaattgg tacgaccatg ccctcctgat 360
 ttccagttgg gatattggcg agtggaggaa cgcnnctgca ttacgcaac gagcataatg 420
 tanaccctta cggttntaaa agctctatag t 451

<210> 36285
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36285

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 gtagattggc acttttgtca tactgaagat cctatttaga gacatcaata ctaattgtca 120
 attcaaatga tcaaccagta gggttttttt accaaattat ttagaggctg tttgataagt 180
 ttcctttatt acaagtttga ctcataggaa ttgtatgctc taccttgaag aggagtgcta 240
 gggacatgaa tgcgcaaaca aggtgattgg aagcactagt gaggagtga gattgcattt 300
 tttttgtaac cctgtgaaaa agggtaaagg gagactaaga agtacacgat gaaattatta 360
 agagggatga atggagggaa acacaacaat aggtggaagt gctgggtggg agctttaacg 420
 tcgacaattt ggcagcatat gaataagatc cttttctca 459

<210> 36286
 <211> 448
 <212> DNA
 <213> Glycine max

POPE JOHN

<210>	36287
<211>	461
<212>	DNA
<213>	Glycine max

tctatagaag	gttcattcct	aatttctcta	caattgcatc	actgctcaat	gagctgggtga	60
agaaaaatgt	ggcatttacc	tgagggtgaaa	aacaagagca	agccttttgct	ttgctcaaag	120
aaaagcttac	taaggcacct	gttctagctc	ttcctgactt	ttctaaaact	tttaagctag	180
aatgtgatgc	ctctggagtg	ggagtttagag	ttgtattggt	acaagggtggg	caccctattg	240
cttatttttag	tgaaaaaactt	catagtgccca	ccctcaacta	cccacctat	gataaagagc	300
tttatgcctt	aataagagcc	cctcaaactt	gggaacattt	ccttggttngc	aaggaatntg	360
tcattcatag	tgatcaccaa	tcacttaagt	acatttagagg	gaaaagcaag	ttaaacaaaa	420
ggcatgcaaa	atgggtagag	tacctagagc	aatctccata	t		461

<210>	36288
<211>	432
<212>	DNA
<213>	Glycine max

agcttaangt aananagtan anggacctcg accagnggag agtttgttta gagactaaac 60

tcanagattc atcgttcggt cttcgttntc ttcagttctc aacaggtaag tacctcanac 240
 caagcttttc aattcattct atgtaccggt ggtgggtccac antttgtttc atgtattttc 300
 attctcggtt tcatatactt tttatacccn cctttgacgt gctaaagcca ntttattaag 360
 tcatttctcg cctaatactaa aaataaaata aatntccacc gatcgtttga attgatcatc 420
 cgttactttc gtttgaaatg aattc 445

<210> 36291
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36291

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 tgacgcctcc tctcacctcc tttcctttgt cttccgctgc atctccatgg tggaaaatca 120
 ccattaaagg accccattga agctcaaaga tccaacctcc atagaagccc cacaagcaag 180
 cttccatcaa gtggtaatca gagcacaaga gtttcaagta ggtgctcctt aaacctccat 240
 taattttttt tctttacctt ctgttccatt tttgtttctt catttttctc catatatctc 300
 ctcacatgtc ttgttctaaa tgttggttaac atgattcttt agagtttcca ccgattaaac 360
 ttgctataga agttagattt gattntctat ggttcaaatt tcttgttctt gttcttgaac 420
 catgaa 426

<210> 36292
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 36292

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 gtatgatagt caccgctgta tgagcgcggt acaccaacaa cgcttcgaag ccatcaagga 120
 gtggtcgttt ctgcgggagc gacacgtcca tctcatggac gacgagtata ctgatcttca 180
 ggaggatata cggcgccggc ggtgggcacc actgggttact cccatggcca agtttgatcc 240
 agaaatagtc cttgagttct atgccaatgc ttggccaaca caggagggcg tgcgtgacat 300
 g 301

[illegible]

gtgaatgctc	tattcaatgg	agtggacaag	aatattttct	tactgatcaa	cacatgcaca	60
atggccaatg	atgcatggga	gatcctgaaa	accactcatg	accgaacctt	caaagtgaat	120
atgtccaaat	agcaactatt	ggccacaaaa	accgaaaatc	tgaatatgaa	ggaggaacag	180
tgtattcatg	actctcacat	gaacattctt	gaaaatgcca	atgcttgcac	tgctttggga	240
gaaaggatga	cagatgaaaa	gctggtgaga	aagatcctca	tatccttgcc	taagagatat	300
gacatgaaag	tcactgcaat	tgaggaagcc	cataacattt	gcaacatgag	agtagatgaa	360
ctcattgggt	cccttcagac	ctttgagcta	agactctcgg	atatgactga	aaag	414

<400>	36294
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gatgtccgat	tcggggaaat	aatatatcga	gacgcacgaa	attgaacaac	ggaagctctc	120
gagaaaatatg	aatggtcata	acattttcact	cggatgttcg	atccggggac	ataattttatc	180
gagacgctcg	aaattgaaca	accgaagctc	tcgacaaatt	agaatggctg	taactttttca	240
cgcgaatggt	cgattcgggg	acataactca	tctagacgct	cgaaattgaa	caacggaagc	300
tctcgagaaa	tttgaatggt	cataagtttt	cacacggatg	tccgattcgg	gaacataata	360
tatcaagaca	atcgaaattg	aacaacggaa	gctct			395

<400>	36295
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15121

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 cgtatgttta ggtagcaaaa tacctcaaaa aaaaagagag agagcaaaaa gagagcgagc 300
 aagaaaagaa taagaaaaaa ataataataa aaagttgtct agctaaaaaa caacatgctt 360
 gtgaaaagag ataatttcca acttttcttt gaaagatttt actgatctta accagttttt 420
 tgaaaaaaa aaatgtgtgt acatatttga agg 453

<210> 36298
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36298

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 aggttaccta agtttgcaca tctttgtgat tggtggggct tgcgtatttc atggttgtat 120
 tggaagattt ctgaaagcaa taagggttaag acttatatga atgctattga ggagcagttc 180
 gttagctctg ataagtcctat ggccagcacc ctaatgaaaa agctntcaag catgaagtat 240
 gataatatta aacgtgtgcy tgagaacatt atggaaatga tggatactat ngataaacta 300
 aagtccttg aaattgagat ttctgaatca tttgttgtcc atctaattct caactcactt 360
 cctcccg 367

<210> 36299
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36299

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 tcttgcttag ctactccata aacctagttt cagatagtag tggacaagtc tacgctattt 120
 cagaaggcta attgctacaa aggcaaagag ttgtcgatag aagaagatga agatgcttct 180
 caaaccagat atgtgaaggc ttgcccatga aggctcttag aacatgagct tgaggctcta 240
 aaaaagaaga atgagcttac cagtctgggt ctggattgat ttgctatgaa gaagttttgt 300
 tgattgaagg ttcattgttc aaatctggaa ccagatgaga agccactaat agaaggagtt 360

<213> Glycine max
 <223> unsure at all n locations
 <400> 36302
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 atggtgattc tccaccatgg agatgcagtg gaagacaaag gagaagagga gagaggaggc 120
 gccatccact anggaataag ccttggaaga aggagcttca ccaccaagat gagccttgga 180
 taagaagctt ggagaggatg cttcaatgga gganaataaa gagggagaga aagagagagg 240
 tgggagcacg atattgaagg aagaaaaagg gagagaagtt gaactttgtg ttgtgtctca 300
 caagactctc attcatcana gttacaacaa gtgttacaca tgcttctatt tatagactan 360
 gtagcttctt tgagaagctn tcttgagaag cttctttgag aaaacttcct tgagaagcta 420
 gagcttagct actcacacc ctctcataac taagctca 458

<210> 36303
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36303
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 ttataataaa ctcaccctc gcaatTTTTg taccgtgtgg ttggtacctg tgatgatcgc 120
 aaacctttgt tcgtgggagc agaatgacag cagtagtgga caagaagtga gattctttcg 180
 tggagccacc gagctgacgt gatgaagttg ggattatttt gggagagagt tgtgttttat 240
 taatcaactc ctccatagct ggttccgtaa ttctttttgt tgatttcaag atgtaaatca 300
 caaatttaat tatatgtatg aacaaattta ttttccatta tgtgaatgat gtgtactagg 360
 ttactatacc tatatatata tatatatata tatatatata tatatatata tatatatatt 420
 cacttacgta atggtgcatt gcg 443

<210> 36304
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36304

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 caccacattg anggattaaa ggaggagag aagtggaact ttgaagtatg tctcacaaga 120
 ctctcattca tcaaagtaac aacaagtttt acacatgctt ctattcatag actaggtagc 180
 ttcttggaga agctttcttg agagaactaa cttgagaagt tcctttgaga caacttcctt 240
 gggaagctag agcttagcta cacacacccc tctcataaca aagctcacct ccttgagaga 300
 cttccttgag aagattccta aagaagctag agcttagcta cacaca 346

<210> 36305
 <211> 464
 <212> DNA
 <213> Glycine max

<400> 36305

agaaggtgtg tagcccacca tcttttcata gtagaatact gtttttgcgt ctactattat 60
 tgtcatcatt gtttttctct gtcattgagg tgctacttga gctgccaaagt ctctccacct 120
 ttgggcgtat cctttgaaag atccgtaccc tctttttgca catgttctgt agttgcatcc 180
 tatccgaaga cattatactg acactgccta atgaaggcaa ccactagggtc cttccaagaa 240
 tggactcggg aaggttccaa gttagtgtac caggtaacag ctaccccagt aagactttct 300
 tggaaggaat gtatcagtaa ttcctcatct tttgcgcagt ccccatctt ccgataatac 360
 atcttttagat agtttttggg gcaagtagtc cccttgtagt tgtcaaagtc caacaccttg 420
 aacttgggag gggatgatgat attgggttct aggaaccaac tttt 464

<210> 36306
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36306

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 gatctgtcat atcgcaacttg agagggtgta aaagggtgcct ttcttttcct agaagccata 120
 tgcaaaatat aagacaaaac acaagagatt agcacatgtt tattctcaag aaaatagaaa 180
 aattaagatt gataacagag ttgggcgctt agcacagcaa tatggcgctt agccccctca 240

nttttagttg cataattggt aacgtttata atattgttgc atgcttnga aggtttaatt 360
acggaactgg gtagaattan aaaataccat aatgggattt tttaaataaa ta 412

<210> 36309
<211> 461
<212> DNA
<213> Glycine max

<400> 36309

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gaaaaggatt tgatctcaaa tccatagggt cttgaaactc atggattctt tcctcaacac 120
ctctaaaaag aataaaaaca tatgtattag tgatgttggg tatgttagag tacgataagg 180
actgaaaacc ctttcttgg ccatcttccc atgagagaat atagtctctc accaactcag 240
tgagtgggtc tacaagtata gaaaaatatg ggataaacct tttgtaaaag tttgttaaga 300
tattgaagcc cctaatttcc cttatacatg gtggagtaag ctactcaaga atgaccttta 360
ttctcttatg gtccatggga agcccttgat cactatttaa aaagttaagg aaagtaatgg 420
aataaaatat accttctttc tttattttca tgttgattat t 461

<210> 36310
<211> 116
<212> DNA
<213> Glycine max

<223> unsure at all n.locations
<400> 36310

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ctcctcgag actgttgat tcattaacac tccgcgataa ggaagcatca caactg 116

<210> 36311
<211> 221
<212> DNA
<213> Glycine max

<400> 36311

agatggggtt gttgatactg gcgaagaggg aacaccagct gctctggacc tggttttcct 60
tgcccttgga aaattaacta tttggtcatt cacattccaa catttccttt aatataggcc 120
aagataatga ccagcctcag gctcttgtaa gcagtaagag catcagatcc aactcccctt 180

gacctacaca agactttgat taaagctggg aagcctaggc a

221

<210> 36312
<211> 429
<212> DNA
<213> Glycine max

<400> 36312

tgagcttgcc ctccattatg agcatggagg agtttgacgc tctaggtggc ctggccagga 60
gaccagtctt cttcctctag aggggggtggg gcctccacaa cccaggagcc tgtgactaag 120
gagcctgcag cagaggaaga gaccactcca gctcagactc ctcagccatc tccaccatct 180
gaacctgctc ctgacgagac tcaaccatca tcagcactgg atcttaatga agaccagcca 240
caggaggagc aggacgttta attttttttt tttgcattat gaacacttta gttttatttc 300
agttatttta tgctttatgt catttaaatt tcagctttta tatttcagta gcatagttgt 360
ttgtttgctt gaacaaaaag cttgattgaa cagtgaattg attgaacatt gcatgcagtg 420
gattgtttg 429

<210> 36313
<211> 356
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36313

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cttaccctcg gaagcaaana aaaaggggag agggaaaatt tccaatcaaa gaggaagcan 120
aaaaggagag aaggaaaatt tccaatcaaa ggaaaaaag agaggaaagg gaattcccaa 180
tcaaagagtg ggagaaagca aaaagattag aaagaaaatt cccaatcaaa gaatgggaga 240
aagaaaaaag agaagaagat agggagata gttcccgatc aaaaaaaaaa ataatatgca 300
gaaagggtct tggaccggac aatatctgaa caatacagaa ttgtcaccaa atgaat 356

<210> 36314
<211> 426
<212> DNA
<213> Glycine max

<400> 36314

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tggcatcatt tctggcgcta aactgttggg agttggaagc catcttctca attaaatttc 120

tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcaacatct atcatacttc 180

tctccatatt actgagtcct tcataaaaaat attggagaag aagctattct gaaatctgat 240

ggtgggggca actggcacat agtttcttaa atctctccca gtactcatac aggctctctc 300

cactgagttg tctaatacct gagatatact tcccgatggg tgtggtcctg gaagcaggaa 360

atTTTTTTTc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420

ggtatt 426

<210> 36315
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36315

cgatcactcg gaccgggatac cttaagcacc tgggctcagc ttttatcatc ttgtcccgat 60

ggcccatgtg ttcgtgcttn tattctcggt gttactttta taccctcttg gacgtgccta 120

agccatttac ttaagtatnt ctcgcttaac tanaaataaa atagatttcc accgaacggt 180

tgaattgtat atccgttaac ttcggctaaa atgaattccg accgttcggt cgtgccgtaa 240

ccacgtagga aatcanaaag aggtannaaa taatataaat aaacaaagaa catcttttag 300

taaaataaag cggaagatca ataggacggt ttctctttgg gattctcatt ctcatcgaat 360

ggataataac taaagtgaga ctaggctaaa atcaactcgc ctagtca 407

<210> 36316
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36316

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tgacaccac ctcttttagga gcgctgaaca ccagcagcgc gtcgaggcca tcaagggatg 120

tggaggaagc aaccctgctc gcctgggcca gctgggcagc aagcatctcc cctattttgc 180
 tataaatagg ggaggaagtg agaaggaaag gggttcagcc ccttaggcac ttctctctct 240
 ttccaatttg cttggaaaaa ttgtttccgt gaagaaaatc taagccgagg cgcttccgaa 300
 acgtttccgt aacgtttttc gtgaagaatt tcgcaaaggt ttcgaccgtt cttcgacgtt 360
 cttcatcgat cttcgatct 379

<210> 36322
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36322

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 aaatgtaaga taatatatat agccatggca ctagaaatca aactttaaaa gtataagaac 120
 caaaactata atagaaaaaa attagggtag gtagaaaaaa tatattagaa tcaaatatat 180
 gtatgtgtag tttcattaca ccaattttaa tacaatattt tctcaaataa ttaaataatt 240
 ttgctaagta ttttcacatg anagtttcat taattcaaac caacctcagg gagctacagg 300
 tacaatcttg cccgagcagt atcaaaccga atagaataat cattttcctg caaagcaaca 360
 aatttagatt ttatcataat atttcaagtt ttacaactaa taaataag 408

<210> 36323
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36323

acaagctttt atttctctt tcagaaccat gctatgtgct cgcgactggt ctctttcttc 60
 cctccgcaac ttgagttcac tattgctacc ccatagagct ccgcgaaatt tgttccggcc 120
 atactcttcc ttgcgagccc tcttgggtctc ttgttcaagg gctcttgagg taattgcatt 180
 ctcttcccggt aaccgggcac actccttccg aacgtgtgta gcggccaact tgatcttctc 240
 cttggcaagt ttgcctttc ctaactcgct tttgagagat tggacttctt cgtcctcttc 300
 cgggtgcttca aaatcctctt cgctgacgac ttttaacttg gagagccaat ctaaactcgc 360

tatatgaact tttagccatt cgtggtaccc accaatgata cn

402

<210> 36324
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36324

tatagaatat ataattacat aactaagacc atttttagatt ttattcatgg caccttccga 60
tgaggctaga gtgctatttt ctcccacaaa cgatatttta natgatgttg cagaatcttt 120
acaatgaatg catattcatg gacaatattc taaagggtaa gggaaaggaa gcaatgaaga 180
tcttcccgaa gaagatcatt cccttgacaa cattattggg gatattctca aaggggtaac 240
aactacacat tctcttaaag atttatgcac taatatgggt tttttatcta tgattgaacc 300
tataaatata aatgacacca tattacatga tcattggata gctgctatgc aagaagaact 360
aaatcactt 369

<210> 36325
<211> 375
<212> DNA
<213> Glycine max
<400> 36325

agcttctatg aagggttgat ctttgagttt caatgaggtc cttcaatggg gatcttccac 60
catggagatg tagcgaaga taaaggagaa gaggtgagag gaggtgtcat ccacttgga 120
ataagccatg gaaaattgag cttcaccacc atgagagtgc cttggataag aagcttagga 180
aggaaacttc aatggaggaa aagaaagaga gagagagaaa gagatacagg ggagcacgaa 240
attgaaggag gaaaagagga agagaagttg aactttgaag tgtgtctcat aagactctca 300
ttcatcaaag ttacaacaag tgttacacat gtttctatct atatccgagg tagcttcctc 360
gagaaacttc cttga 375

<210> 36326
<211> 407
<212> DNA
<213> Glycine max
<400> 36326

gcaaaccgat ccattccacat ggttgccctct tgggtgtaaag agtcgatcac ccttcctcta 300
 gcctctttttt ccgcgtatac ttgggcatac tcatccgcga ttctatgctc gtgggctgtg 360
 gctagaccta actcttcttg gtacttggcg atgatagcta gcatgttggg ctccgtctcg 420
 cataaacgct gagacaagct tctt 444

<210> 36329
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 36329

agcttgaag gatgcttcaa tggaggatta tattgagga gagaaagaga gaggggtag 60
 cacgaaattg aaggaataaa aaaggagag aagtgaact ttgaagtatg ttcacaaga 120
 ctctcattca tcaaagttac aacaagtgtt gcacatgctt ctatttatag actaggtagc 180
 ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
 gagaagctag agcttagcta cacacacccc ttcataact aagctcacct cttgagaag 300
 cttccttaag aagattccta aagaagctag agcttagcta cacatactc tctaatagct 360
 aagct 365

<210> 36330
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36330

nttcgattca ttctatgtac ccgtgggtgt ccacattgtg ttttgtgtat ttttattctc 60
 gtttcattta ctttttatac ccccttttga cgtgcttaag ccattttatt taagtcattt 120
 ctgcgttaac ctaaaaataa aataaatttc caccgatcgt ttgaattgta ttatccgtta 180
 acttcggtta aaatgaattt cgaccgttcg gtcgtgccgt aaccacgttg gaaataaaaa 240
 aaaaggtaaa aaataatata ataatacaaaa aacatctttt tagtaaaata aagtggaaaa 300
 tcaatcggac gttttctctt tgggatttct cattcttaac cgaattgact aataactaaa 360
 gtgaaactaa ggctaaaatc aactcgcta gtcaagctcg tccataaaaa taggtttttg 420
 aagtttatca tttcaatttc ttgctaagt 449

<210> 36331
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 36331

agcttctaaa ctttatacaa gaattattct ctgataccac ttgttagaca agtggcctca 60
 gatattcttaa gaaggggggg gttgaattaa gatatcccaa attactttcc acaattaaaa 120
 atttatttca ctttcttttc aagttataga ttcccttaac aatgaacttc ttaaataatta 180
 attcaaataa aacaatttga atatgaatgt aaagcaataa taaacaaagg aggttaaggg 240
 aagagaaagt gcaaactcag atttatattg gttcggccac acccttgtgc ctacgtccag 300
 tccccaaagca atccgcttga gagttctact atcttgtaaa ttccctttac aagttctaaa 360
 cacacaaaga caatccttcc tttgtgttta gaattccttt acaac 405

<210> 36332
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 36332

taacaatcag tgtcatacta ttgatcaaaa caaagtctgt atttatatgc aatactagac 60
 tcaaaatatg caacaaacac tagacctaaa tcagtgtcac agaaattgga agaaaatatt 120
 ttatccaagc acaaacttca agccttattc catgtattgg ggggaagtta tggctggcca 180
 tatgggtaga ggtgtcatag aggagcaggt atggaggaag ggaccttgga ctgctgaaga 240
 ggacaggttg cttgttgagt atgtcaggtt gcatggtgaa ggtagatgga actctgttgc 300
 taggcttgca agtaagaaac accaaaacttt ttctactgtt ttgtttctta atatatatga 360
 ttggattttc acatttataa gtgacaatat agcaaaaaaa caactgaaat tgttttcaac 420
 ttctactgtt catgttggct acatt 445

<210> 36333
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 36333

tgcaagctgc caccactcc ccagcaatth ttgtgtctcc tctctggag gaacatcttg 60
 gaaggcccaa gtgggcctac ttgctatthg caccctctg ttactaaat .acacccctg 120
 cctthttthg ctgattctth ttccgtaacg ttacagaact ttacgaattc tgtaacgata 180
 cttgtthtcc ttccgtaatg ttacggaacc ttacggatta cgtaatcatc cctthttthg 240
 ctttcggaat gttacagaac ctcacggatt gtgtaacaat gcttccttht gatttcgggc 300
 atgttacgga acttcacgga tcgtgcaaca atgtctctth ttgacttctg gcatgttatg 360

<210> 36334
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 36334

tcgagcctca tcgtgcacta ttggtaaagg tctctatga ttcttacgta gcacacaaca 60
 tctcagtcga gggthtttgaa ggcattgtta atcacataac taccaataac tatatctctg 120
 tcgcggaaga ggagattcca gttgagggga gagggcaca caaagctcta catgtgtthg 180
 tcagatgcat ggaccatgtc gtcgctaagg tactcatcga taatggttca agthttaaag 240
 tgatgccaaa gaccaccttg gagaaacttc cthttaatgc gtcacgtcta aaaccgagtt 300
 caatggtagt acgagctthc gacggtagtc ggcgggaggt gatgggggaa attgacatcc 360
 ccattcagat aggccccac acttgcaatg tggthttcca agcgatggac ataaatccc 420
 cctacaact 429

<210> 36335
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36335

gaagctgaac tatcgtgtct gataaacaac nacgtttaag ttgattcang acaancaaga 60
 cnagggagcg gtggaagcat gatgcaaca agcacttgaa ctgcagctgc ttaactcttc 120
 thtttgtgta tcttggcata cctatacggg ctattaatgc cacaaaatgg tgacctgacg 180
 accacagtht tgaactccaa atatggtgga tggaggaacc ttgaagaaac aggaaattca 240

ccaaaacaat gtgtgtggtg gagggatgta aaacaagctt tcaatcaatc tcaacaggga 300
ctggttat 308

<210> 36336
<211> 425
<212> DNA
<213> Glycine max

<400> 36336

tgcaatgaaa gatatttgt atgtaggagt ctggtgccaa tctatacttt caaaccaagg 60
ccataattca aaataggtaa gatataaatg atgatagtca ttagcacaaa cattgacttc 120
tgcaactgct actaagcttg caatcaaaga tattgtatat atagtaatga actttccatt 180
cagcaacaca aatttgtttt atttgtatgc ttaaattctgt tagattgcct gttcaacttg 240
aaatgtcaaa tttctatctt atatatttta tttggacaat atctaacaaa agatgcaaca 300
aagaagttta ctaaaccctta tatcagagat gggcatcaat tctttatata ttgcttgtct 360
ggcacaccac aaattctctt ttgatttggt ttgtccatag attagacttg ctttatatag 420
ttctc 425

<210> 36337
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36337

gggtcccttg agtatgcatg cancgcncca tnggacagan ccnggggcaa aagaccgaga 60
aacaacacct ttacgttagt agaaagacac ccagcgggc ggccaatggg aaaanacaac 120
ccacaccaac gcgaacgaaa gaaaaaaaga caaacgaagg agggagagac aaaagcgaaa 180
cacaaccgaa gagacacaac acaagcagcc cgagggngcg aggaccngac ccacgaccaa 240
gaccacaagg gagacaaaac gaaagagcac agaaaagaaa cgaacnacgc acaacaggga 300
ccnacaagga aagaagcggg agcaccgaac gcaagacgag agacaccaac ccagaccaag 360
aacagcgaca cacaggacgg cacaaaaaac cgaaagaaaa agaagaaggg ccaaccacga 420
gccccaaaaa cacagacaca cg 442

<210> 36338
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 36338

tcccgcatcc gtacttggaa ggacctgatt actgctttcc tattgcaata tcagtataat 60
 tccgatatgg ctgccaatcg cactcagcta cagaatatgt tcaagaagga aggtgagacc 120
 tttaaagaat acgcgcatcg gtggagagac ctggcggcac aattggcacc tcccatgctc 180
 gaaagggaga tgatcaccat gatggtagac accttgccag tgttttacta tgagaagttg 240
 gtaggttaca tgccatccag cttcgcagac gtagtgttcg ccggggaaag aattgaagta 300
 ggggttgaaga gaggggaagtt cgattatggt tcctctacaa gtgccaatgc taaaagggtc 360
 ggaacaactg tggcaaagag gaaggaggga gatgccacg ctgtcacttc agcgcccgcg 420
 tgggtta 427

<210> 36339
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 36339

cagagcacct gagctgcagc ttgattcctt gcccgcctt tttttttat gtgcacccaa 60
 acccaagggtc cgggtgagaa tacaacctcc tttctccctt tgtcggcttg tttaacatag 120
 cttttatattt tcctctcaat tagatctttg actctctcat gaagcttctt cacatagtcc 180
 gcctttgcta gaccttcttt atgcttaaaa acagaaacat taggcatatg caaaagatca 240
 agaggagtta gtgggttaaa accataaaca acttcaaaag gagaacaatt aacggtgc 298

<210> 36340
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36340

taaagtatgc ccgagtcatt catccctatg agaagntgnt tanatattgt cgatcagaat 60
 tgccattcgt tggattatgg ggttgaacca agctcatgct ttttcgaaaa aagttcatca 120

aatcaagttg aagaatggaa gtaactatct tgcaaaaatt ggggcaaaag atgaatcgag 180
 tcacatcact gcttcgtcta ctgccaaaca tatttaggat tgttgatgtc cttgttactt 240
 ccagtttcac cttgacaaag atgtcataga ccatgtggaa aatctaaatt gattcaacc 300
 tatatcctgc acaatacttc aactgtacat cattcgcata catccatgct tttcattgg 360
 tgcattgctc attgcattct ttccttgaaa aagaaaataa aaataaataa at 412

<210> 36341
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 36341

agcttgttta taatactgta ttatgtgttt gtgactttga gaggtgtgaa catgacgggt 60
 ataactcttt ttttgatgaa caaatgttgg ccattgaaca agtaatcatt ttttgttttt 120
 tttttttttt catttcttaa ccttccaact cactttatat gtcggtcttg aacaattaaa 180
 tgaaaaccaa aaaatctttt gaattttgat ttttttttct tctcttaacc atccaactca 240
 ctttatatat gtcccacttg aataactaaa aagaaactaa aaacatcctt tgaattttga 300
 tttttgtagg tggaaccaat tgagaaaaaa gaagccatct gagtaagatt cctaacagct 360
 attatggatt gagc 374

<210> 36342
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36342

gacacctaga tactcaagct tangcatcgg gagaaacgat ctcatataac aggggtactgt 60
 tgctatttct gaacaaatga ggggtcaacag gcccttgaca gagaaacaat ccagctatca 120
 tgcagtaagt ctaccccccac attggcttac catgctgccc caaccatacc tatattgaaa 180
 aacgaacact catgaattga ctggttagaca aagaagtatc cgtgcgcttg caagagataa 240
 taagatgctg acatcatact ccaaaccact gatttagacca gactcacacc tcttggtgta 300
 gatggatcaa ttcttaacac cacagaccgc tatgcagatt acttagatgc aactaataaa 360
 aaaccccgga tattctccat aagcaacggg caaccacacg actacagatc caatccagag 420

<210> 36343
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36343

agctcgctag ctanaacgaa ggtggatnnt ttatctcaact ttaggcgcct ctaaatnggg 60
 gggaatgtgt ctcaaataatg tgtgggcaac ttttggtttt ggttttcttg ccttgattgc 120
 ggttcgaatc tgcggggtct tgtattggga tgtgccctac gtcctatata tgcgtttctg 180
 aagcaatgtg ggcatcgcca cattgtcact cgttctcttg ctattgaggc ctaaacgcgc 240
 gcccaccaag tgttcgggtga aatgcctcaa tggcattatc gcgtgacttt tgtaaaccac 300
 caaccatgg ggcatcttgg tttgcacata tctctatctt tttgggacat gcattcattc 360
 ccgacaaatg ctagagtaat tgcccc 386

<210> 36344
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 36344

cctttcattc tgacatcatt caagaactcc ttagaacccc ccaagaacca cagacaaagg 60
 ctatgactga aaaagctgtg aaggttggtg aagaggtcaa gttcttctca tattatgctc 120
 atcacgttgc cactagtgat catgcagggtg atatcctaaa gagggcttac atgattccaa 180
 aagaaagggg acacattatt ctcaatgggtg tgggccaaca cgctttcacg ccagatgttt 240
 cgaaggggaa ggacttcaaa aaga 264

<210> 36345
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36345

agctttgagg gtgcgtagcc caccctcntt tcatagtaga gtatcgataa tgtgtctacc 60

atcacgatta tcattctccct ttccatcatt gggggtacca cctaggccgc cagatccctc 120
caccttttgg gcatgttctt tgaaagatcc gtcccccttt ttgcacatgt tctgtatttg 180
caccctatct gaaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattag 240
gtccttcgaa gaatggactc gggaagggtc caagttagtg taccaggtaa cagctacccc 300
agtaagactt tcttggaagg aatgtatcag caattcctca tcttttgcgt attcccccat 360
cttctgacaa tgc 373

<210> 36346
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36346

tgagatgagg aagtgttgaa gggngaaact tcttgtctnn ttttgttgac cacagagtgg 60
tacctggaga tatgtttcgg gggtcaggag accttgggga cgtcagggtg ggtgctattg 120
cccaaaacca agcttgacca atcccgaccc aaccgggga tagtcgggtca gtgagaacct 180
gtgatgtacc taagcaggcg agctcctggc agtcaacaga taaaaggaaa acaagaccac 240
aaagcaagga ggcttgtggg ggctggccag ctgtgaattt tgtgtaatat gtggattgtg 300
gcctctggta atcgattacc aaagggtgagt aatcgattac aaggcttaaa attgaggaca 360
ggaggctaag atggtctctg gtaatcgatt accaaggggt g 401

<210> 36347
<211> 245
<212> DNA
<213> Glycine max

<400> 36347

agcttgccac atgtattcaa caatcagcat cagctgatta aaatatattt ttggagccct 60
tgcgggcgga caaaacgaca acgcgccatg agtgagaata aacgacgatg tgaggcgaga 120
gaagagagtt tatttaccgg gagtcttgac gactctgtgc tggttggatt tgggtggcata 180
gctgtagcgc ttgcagtagg tgagacgttg caccatcttc tccgataact tcttccaaac 240
cctag 245

<210> 36348
 <211> 450
 <212> DNA
 <213> Glycine max

 <400> 36348

 ctcaacaagt ttcttcacag atatctatca tgaagcagaa aactcgcatt actacccatc 60
 atatctccca aaaggccata cccacgaaat ttaagagaga aagaagtcca cccaaacctg 120
 aaatttcgaa gtcccaactcg tagccacgca cttcactact ccaaaaacgc cctcctttca 180
 cgatttgggg cagaaatgat ggccaaaggt tgaagctttg ttgggggtttc aatggagaat 240
 ggaggagaag aggaagctac gtgagagagg gagagaaaag gcttctgaac ttctttcttt 300
 tggctgagtg aggagagaga aaagctcttt gggttttaaat aaaagggttt tctctttttc 360
 tattatttta tttaagcaat gccacatgtc tccatttgag tggagcaaga agggcccact 420
 ttcccttttt gactgtgacc catactcagc 450

<210> 36349
 <211> 246
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36349

 agcttccatc tttgattgaa tnaaggtnntt aanttttgca gcancgcaaa gangctgaga 60
 catcttttat cccatccagc gggaagtctg atgacactgc tgattatacc ccgcttgata 120
 gtgtttcttt tattggtgaa ccacacactg atacaacaga actgacagat cctaacttta 180
 atgctgaaga tcctctaaga aatttttatt cctttgatga agaagttatt aaatctgatg 240
 ttcaaa 246

<210> 36350
 <211> 442
 <212> DNA
 <213> Glycine max

 <400> 36350

 agtgtgaggg gatactaagc attctttgca ccaaatgacc tatcttatcg ataagccacg 60
 aaaggaggcg ttatggtttt ggctccatga ctggtaatga aaataaagag actgtaatgc 120

aggttcctga agaactttct gagataaaaa atatgaagaa catgtatatc caactaactc 180
 tatcatcact tcataccttg gaacagatca tgggtagaag ctcaactgta aacatgttcc 240
 catcttctcc aaacaactaa gctttgctat tacaagagaa ttgaaagaag aagaaaaatt 300
 gcactagaga aagcaaccta gtatctaata gtgagaataa catggatcta cttgtgcttg 360
 tacatggctg atattataga gactaatgca gccatccaat tagttactcc gaatatatta 420
 cacatgatgg gtgttgactc tc 442

<210> 36351
 <211> 227
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36351

agcttgtaat cgattacaca catatctggt tcgattatca gaggagattn tcagaaagat 60
 attctcaatt gtcacatctt ttcagttggt tcttgaatgg ctatcaaagg cctatattta 120
 tgtgacttga gacacgaatt tgctaagagt ttttcagaac aaaaaggctc tatectctta 180
 aaaacaaaa tcattttatc ctcttacaaa ttccttggcc aaaacac 227

<210> 36352
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36352

taagctcctt caactgcaca aggcctcttaa tatttgatga gatccttggt gaaccttcac 60
 ccgacgaaga cgctgactaa aacttatatt atccttcttt gacaaagtat ggcaggatag 120
 ggacaagtaa attttcttcc catcagacct tggatgcaac tgtgatcgta taccatatac 180
 agctagatct tgacgggtat tcaagccatc cttcgtcttg ccttgaatgt taaggagcgt 240
 cccaatcaca ctgtcacaaa catttttctc cacatgcata acatcaatac aatgtctaac 300
 gtcaagatca caccagtacg gaagatcaaa gaaaatggac ctcttcttcc atatgcaact 360
 ctgactntta tccttcttgt gggctcttccc aaatacagta ttcaggtggt gaacccgctg 420
 atatacctgc tcactagtca acga 444

<210> 36353
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36353

agcttcaact cattctatca gatctaagtt ttattttgct nnnatacaac gaaaaaggct 60
 tattttgctc catcttaatc ctactatfff atctcgttac atttttatcc cttttaattc 120
 atatccttac atatttggtg tcttttcacg acgtcttttg caatctattc aactacttgt 180
 tctgcactta aagtattact tgtaaaacgt agccaaaaaa caaaacattg cttgcacaat 240
 aatttcattg ccaattgatt tttctttatt tttctatcaa aatggagtga ctgtaccatt 300
 ttttcaatta atactctgcy catatcatat tctggagttt ataaaacatt ccactctttat 360

<210> 36354
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 36354

atctaagtct aacctattat tgaaatffff aactccgggc ctgatgtagg ctaagtgagt 60
 tgggtgtggt tccacccta cctctcatga actgtgggta aatgcctctt gcgaagcgtg 120
 aaagaagtac tattgtgtgt ttgtattagt tcattttata ttttaatffff ttggataaaa 180
 gctttacaga aacttttaca acattgaaaa taactagata attactacaa ttgaacttat 240
 gttagctcca gattcattgg acctctactt aaattcagaa gttgcagtgc acagtatcaa 300
 aggaaaatta tctatgcctt aattagggga ttttttttat gacaattagg ggattgggtat 360
 tactgtattg tggaataaaa caaatccgac atccagattt aaacccact tgtatcttta 420
 attaagat 428

<210> 36355
 <211> 236
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36355

aaacaaacaa ancagcgcag cgtgacaatn anagangccg ccccaacacc ncacccacgc 60
aagagaanca cacaagaacg gccnnactcn aaagaaacac acaggccnna aaccacncca 120
acaccccagg agggcgcagg caacgcaaga gacaanggcc acaacaaaga acagaccacc 180
aanacgcgna aaggaaggcg acacaaggaa aagggnacc aagaaaaagg ccaaca 236

<210> 36356
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36356

agtgtgatnc aacaaaatcc agcattgact acaggcttan tttatgacaa gccaanngaa 60
ccgcgcggta ggtttaatag tacaattatt cccctttaat ctttatagca cctatcttgt 120
tacaataaaa cactgagatg agatgaatat gtttcactca aaaaaaacgg tccgtcctaa 180
tgttgaaaat gagtattcca ccagataaca atgtgcgaaa tttggaccta attaacttat 240
aaacctaatt aattttaaca acaataaata agtctatatt ttggaggaaa gaaaatttta 300
tctctctcaa caagcataac acagctat 328

<210> 36357
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36357

gaaaaacacc anngaaggac cncaacgaag cacaagaac gagcncat agaagcncca 60
caagcaagcn nccatcaagt ggtaatcaga gcacaagagc ttcaagtagg agctccttaa 120
acctccatta attttttttc tttaccttct ctgccattga tgtttcttca tttttatcca 180
tgtatctcct cacatgtcgg gcgctaaatg ttgttaacat gattctttac agtttccacc 240
aataaacttg ctatagaaac tagattcgat attctatgga tcaacattct tgctcttgct 300
cttgaaccat g 311

<210> 36358
<211> 428

[illegible]

tagcacgtga	agacatggcg	cttagtgcaa	ggggtgttct	anattgggtg	gaaaactaaa	60
aaattattgt	aaggcttttc	tgtccatcct	ttcacctagg	cttaaaaaagc	ccccttgttc	120
actactaac	gaactgaaaa	attaatcata	atcataagca	actatcctaa	ttacatgcaa	180
gagatacaaa	atgaaaaaga	gaaaagggaa	agaaaagtig	ggttgcctcc	caataagcgc	240
tcttttaatz	tcattagctt	gacgcatcat	cctgttatcc	tgtgtccaat	aagggttccaa	300
cttcagaaac	cttcttcttt	agtctttgtt	tcttcatcac	attgaccttc	aaacaaacat	360
tttggtcagg	caaagctctc	tcttcatgaa	acatatcgaa	actgatitgc	tgggtcttcta	420
tggccatt						428

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<223>      unsure at all n locations
<400>      36359
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ggggaacgag	tgagacctgg	atcctcagta	natcngagat	ccttagagtg	acccgcggca	60
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tttcctgata	aagtaaatgg	atcattttta	aggtccaacg	ccttaaaatg	atcacctttc	180
aagtaaaaag	aatcgcttga	ttcacgctta	agaaagaact	acgtaggttt	gatttcctca	240
tcgatggagg	gtacgtagga	gcaaaagccc	cgcttttgtc	gacctcaaaa	aataaaaaga	300
aataaaagtt	aaggtaatac	aatttccaca	attctaaaaa	ataggttggt	gtcctttgag	360
acaaacgtga	gaggtgctaa	taccttcctc	aaacgtaatt	acaactcccg	aacttagaat	420
tttcattttg	atcgggtccc	ttcggttttt	ctgatgtttt	ccacaaataa	acgttggtgg	480
cgactccgcg	catn					494

15148

<223> unsure at all n locations
 <400> 36360

cctgtatcag tgcgggttcg ggagacaaag gtcaagcgnn cgtaaantgt tatagatgan 60
 atnccgagta ctggggattt ggtacgacca tgctctctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacggtttta 180
 aaagctctat agttgggcct aggcctttaga gttttcattt tgttaaagct ttgtgtcttt 240
 tgtttttgaa ttataatac aaggatcttt cttcatctgt tcttggcttc taccattctt 300
 cattcatttg catgtttact tcttttcta aaacggcaga ttcaatgaca agtccccga 360
 aggtactaat acctngacc cgtctatcaa cttcgagcaa gaaatgaatc aa 412

<210> 36361
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 36361
 gaccgcggca tgcaagcttg acagtgcgca ggagcgcact ccttcacttt tatacattat 60
 aactggcggc cgatgaatgg tataataagg acttccttct ctaaccagac ttgtgaaatc 120
 gcaaaacaag aataaaaata catctaaaag gagcgtcttc tcgtaagtcc tcgaaacggt 180
 cagcgaatgt gccgtccaag tattctttcg ccatccttct agacacagat ataatagcct 240
 aataatagcc ttgtccttat gttctgggtg gatccattaa ttgatagtag ccgctttttg 300
 tatcccttat cgacaactaa tttgtcagcc atctagttat gatggtagac atatgatcat 360
 aactttgatc acgcgcccatt att 383

<210> 36362
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36362

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 tttgattttt ttcagaatcg gacgaccagg atcattcaga taccgtcgaa ttcgttcacc 120
 tcgattgatg aaaggagcgg atgatcataa ggtatctctg cctgccacct aacttgctgt 180

ccctggatga caaaagggtgc ggaagacgat gttattctct gtatgtcaac gggctcgttt 240
 gccctgggtt aacgaaagggt gcgataacc atacagtatc cccgatgtc acctgacttc 300
 atgggtcagg atgacaaaag gtgcagaaca cgatgttagt ctctgcgcgt caacgagctc 360
 gtttggccct ggttgacgaa aggtgtggat aaccatgcgg taccctcgca tgtcattgga 420
 cttggcat 428

<210> 36363
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 36363

agcttggagg aggagaaaca tgggaccttc ctattgtatt tcaaacaag aagtcgtgtc 60
 cagtcaaggc tctgacagac catacaagct tctaacgat ttctaattat gtgggccatt 120
 aagtctatca tatgctgaca atagccgaga agcccatgaa tctcttctgg ggaggagtag 180
 gtgtctgcca tcgccttggc cttggctaac aatcggggaa gctcttgact accgatcaag 240
 gtaagagcaa accgatccat ccacatggct ggctcttggc gtaaagagta gatcacctt 300
 cctctagcct gtttttgc 318

<210> 36364
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36364

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 ctaccaaagg gataaagaga atttttcatt gnatggacnc aaccacacgg gccaccgagc 120
 ccatcaagag nacacaacac cccgcccagc ccggaacac ccacacaggc agaacacacn 180
 acggacacgg cccgagcnga ggccagcaac cgcaggagga accgacaacc acagaaagcc 240
 aaggcgaacc aaaccagcca caaggacccc gcacgacgca aggcaccaan cacccaacca 300
 cgagcngccn ncacagcgca cgcgagagca aacaacacga cgaccggcg cgcaaggggc 360
 aaagaccgag aaaaacacga cggggaccaa ccaaaaagag caaacaagca gagcnccgcg 420

<210> 36365
 <211> 372
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36365

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 tttgatgaat gatagtcttg cgagacacaa ctcaaagttc aacttctctc cctcttttat 120
 tccttcaatt tcgtgctccc ccttctctc tttctttttc tccattaaag catcctcttc 180
 aagcttctta tccaagacaa ttcttggtgg tgaagctctt tcttcttgg cttattccct 240
 agtgaatggt gcctcccctc tctcttctc ctttgcttc cgctgcatct ccatgggtgta 300
 aaatcaccat tgaaggacct cattgaagct caaagatcca gcctccatag aagccccaca 360
 agcaagcttc ca 372

<210> 36366
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36366

agatgagctg ctccaaggga tatcaaaggg ggtacatang tgnaaactct taagccncat 60
 cgncctcgag gaaccctcca tctctggcaa tccatacccc acaacacaac cacatgaaac 120
 tcgatgttcc gcacttcggc ggcattggatc cttttggttg gatcttcaaa ataacacaat 180
 tctttgagta tcatgaaacc ccagaccatg atcatctcac catagcttcc atctacatgg 240
 aaggacttac actcgctggt tccaatggat gatgcaaaat ggccagattt cctcctgggt 300
 aggtcttctt caagccttgg acgcccgttt tgcagtgtct caatatgagg atcctacaag 360
 tatttgttta aactcactca caaaggcact gtaacagaat at 402

<210> 36367
 <211> 327
 <212> DNA
 <213> Glycine max

[illegible]

<210>	36368
<211>	278
<212>	DNA
<213>	Glycine max

<210>	36369
<211>	461
<212>	DNA
<213>	Glycine max

gcgccctccc	ttgattcnat	tgctttgcan	nnctcgcaga	ttctgtaaaag	cgactatgcg	60
gcatgcaagc	ttgtaagcaa	atgaacaagg	ttaaagttga	ttatcctgcg	cagagcacag	120
gctggtgcgt	atattatcca	tcattcccg	ctttatcata	gcggtcaata	gtgataacct	180
ttgcttactt	cttctgtagt	ggaatacgg	ttgcgaaaag	gttttgctct	tttcttttcg	240
gactaaaaac	atgtcacctt	acttgagaac	tgccccgca	aagatatatg	tacatataca	300
tacatacata	tataaataag	acagaagaga	aacaagcgat	tctatatata	tagtagcagc	360

cgtaaagcgg caggagggca taaaagataa agatccatcc atcgcgaaaa aaacgacaaa 420
gacgttgtgc ggaaagagta aagaaagaca cttgacatac c 461

<210> 36370
<211> 661
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36370

cccccccccac caaacctgc aaggaataat aaaaagaaga atntaaatac ttttctcntn 60
cnnnnnnnna agggcgnggt ttgaatcgag acaatgcnan nccnganana tanaaacaca 120
agcccggggcg gcgnaçaang acacactcaa cacgcaaact ctgggattct caagcgngag 180
gacagagaca cggcgaggcg ggcantactg caccacaaaa gactccgaga gacntnctct 240
gaccaggaac aacacataaa acatgcgaga acgtacatgc acatggcaga agacagtact 300
gagaggggaca cttgaagtaa aactgagggc agggccgcag tcgctccgca agataacacg 360
acaaccactc tctcgacggg ggaagaggac gagatcgga catgtacacg aaccgggcag 420
cacaaaatac aagcagtcgg gcaacgacaa gcagcacaa aacgccgata gaagttcatt 480
gtgtagtcca gaaggacctc agaacgcaag attgatggcg gcgtgacgca ngactagacc 540
caagcgcagc acaagacact catcacgcgg accttgata atgtatcact ggatcaaaga 600
gggatcacat agaacaggcc caagtacgag gaaacaagac cggacggacc gacagacaac 660
g 661

<210> 36371
<211> 285
<212> DNA
<213> Glycine max

<400> 36371

agcttttatg cctcagatct tcttcattat tggagtcttt cgcttcttga agatcagtgg 60
tagcataata gagaaggaag atagatgatt ggagatgcc cttcaaggag aagatgattc 120
aagaacaagc tccccaccat aggaagccat tgattaaagc ttgtatgtac gaaaagatga 180
gtggagggag aaaaagaaaa agagcaagaa aatttttgcc ctaatgaggt ctaaaacttt 240
gagtgggaatt ctgaaatgga taaaagtga aaaaaaggcc cccca 285

<210> 36372
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 36372

tacaatcatt tctataaaga atattattgg aagcatgtct taatttgctt acgaaatcca 60
 taccttggtg gtcgttgaat ctcagttgag tcagttctgc aatctcactc agattcttgt 120
 tctaataaga taaaaaaaaat gaaaccaaga gtggaaaggg ctttccacgt acgaatcaga 180
 cacaagccga ttccacgttc acaaaatcac cagtttccca acctttttct tatcatcaat 240
 tgtctctttt tattctcact tccttaaate aggaatagca aagggaagt ggccatgcat 300
 atgcaagcac ccacaatcag tcttaacact gcaagggtccc catcttcatt agctgcagct 360
 gccaatgctg gcctgcgacc gcacctcatc cctatggctt taaagtcac tttcttatgt 420
 agttccctta acctcttact tcac 445

<210> 36373
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 36373

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 gaagagggaa cattagatgc tctgagcttg gtcttccttg cctctggaaa attaaactgtg 120
 gggtcattca tattccaata gttccttatg atataagcta agtcaatgac cagccttatg 180
 ttttcatagg aggtaagagc atcagatcca actcccctcg atctacacaa ggctgtgatt 240
 aaagctggga agcctaatacg agaagagtta gactgagcca taatagtcaa ttgtgcagag 300
 atcaaactac caatgtgcat gtccatcctt gtgattaagc catagaccaa cctac 355

<210> 36374
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 36374

gcgcccctga tgagcatgcc cttgaaagcg gcaaaaaccg gccggcagaa taataaggac 60

atccttcact ttccaatttg ttatgacatt tgttggtgga tcacctatga tgtcttggtt 240
ccaagggtaa tctatatacct ttctgatggc ataagcatga aaccaatcaa agaaaaggac 300
attaattntg cctctttcga caaattcgta gaacttgtct tggatttggt ttctgggtgt 360
acccttgtaa tgttggaata ccatatcctt tgagggtcat tctccggaga ataaaaatct 420
tt 422

<210> 36377
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36377

aggagtcanat tctgatctct gnnanataca gacctngana gaaaacgcag cgtgcnagct 60
nagagnctta caccaagaag cgnaccttgc gtttttaana agaaccacac caaccggacc 120
atgttggtatt ggtggggagc cctcttgacg gagactcaag cactgtatcg aggggaatct 180
ccactaaagg cctgcgcaac acaacaacat aaagacttgc ttagtaaata aggcaccttg 240
aatctaagca aaaaacaaca ctctacttta actcaacttc acgatattct actttttttt 300
actggcttca cgatattgta ctagaacag gtaaacttca tgctaaaaaa ctaatctcaa 360
gaacgaattg tcttttactt tttaaatacc acttatgcga atgtcgatca gaaaacaaga 420
cactcataaa tggagaaaaa aatgtgatga ccatttatca agcaccg 467

<210> 36378
<211> 242
<212> DNA
<213> Glycine max

<400> 36378

catggccggg ctaacctaga ccaattgggc cacctgcatt cccacattcc aggtctggtag 60
cctagagcat gaaggggagt gtgttgaaaa gccacttaac cacggtcaac ctagctcgcc 120
ttagatacgg cctcattggg ggctgacatt ttttttatca gcgaaaatat ataatcatat 180
tgaactgagt tccacaggta ccaaggctac aatttaatac atcaagcaaa aggttccaat 240
at 242

<210> 36379
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 36379

ggaacaacac aggggagttt caagaaatga agagcccccg gttgatgcat ggacggagat 60
 gaaaaagatc atgaggaagc ggcattgtgcc ggctactaac tcacgggact tgaaattcaa 120
 gtcctcaaaaa ctaacccaac gcaactatgg ggttgaggag tattttaagg aaatggatgt 180
 gtcattgatt caagcaaata ttgaagaaaa tgaggaggta aatacggctc gattgcttaa 240
 tgggttgact aacgatatct gcgatacctg cagcagcttg ttgaaaagga tgatttgctt 300
 cccaaagcac tcc 313

<210> 36380
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 36380

ccacaagcac accgggggtt gaaacctgct accccacaac acaggcgcaa tatctgaacc 60
 gttgaaaaag atgagagtcg ctaggaaccc cacattcaaa atcctgtatc agtcaatata 120
 tgctgaatat acaacatgca aacacgtaac gccttaccgg aatggaatat agcttttccc 180
 aaaacctata ccatcatgac aaaaaagcgg ccggccaaga tttagaggag cattaagaca 240
 cattatcatc taaagaacag atcaactcct ttccaggccg cta 283

<210> 36381
 <211> 122
 <212> DNA
 <213> Glycine max

<400> 36381

tattgagttt aggggtacaaa acaactagta tttaggaagg agcactccat tcattcttat 60
 cccaggaaac aatactcact tagtccgtat atataaatgt ccttgcatga cgtaccgcaa 120
 ac 122

<210> 36382

<211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36382

aggaataagt tgaaactgag gactttgcan nacgcgacac tatagaaact cacgcggcca 60
 aaatgatcgg ccaaacaaga ctttttcttt tagttccac gcaccacacg aggacacggg 120
 gaaatttgca gccaccactg accccctcgg accacaatgg caaggacacc cgaggagaca 180
 gaagattcag agtcccttat caaagctcag acggaagaag cccccacgac catggtatga 240
 cgctcggact atcaagaaga agaagaagag ggactcccct ccctgccttg aaaaactcac 300
 gatcacccct gctcaacgag tggaccaacc ctgatcttct cagacgagtg tacacataac 360
 gcctctaggc tgggccca cgaacatgg gtcggcacac tgccgaacag aacaaagcga 420
 cacaccgaag gaccatatag ggcgccaagg cggaaccc 458

<210> 36383
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36383

caattccaca gacngccctg gggaatctaa agatgtaact ctccacacgg ttcttgaatt 60
 tctcaaatcg gtcctaagtt tttctaaaag ttataactct tctaaatggg tgtcttgacc 120
 agacatgaag agtctataaa aacaaggctt tgttttgcat tacaattatc ttgaacactt 180
 attcatacaa tcctttacaa gccttaaadc tctttgaact tcttcttctt atttgaacca 240
 aaagccttct gaagttttct ggtctcccaa agcttgaaaa cctgtgctat tcatcttttc 300
 attctcttcc ccctttgcca aaaagaattc tc 332

<210> 36384
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 36384

ttataaaaag acttgcttct tcaagccgag gtttttacct ggcaaccact agcactcggc 60

tgggattgtg ttcttatttt ccttgcataa acgtacatct tctaagctcc attttcttga 120
 agaattatcg tcctataatc acgtaagtga tcttttaaca ctactatctt tactatgaat 180
 attatgacga aacttagtaa ttaaagatga ttgttttaca aatgtatatc aatgttctaa 240
 cactaaactc ttgatatatc aaattcacac gaaaatatat atttcggatt ctgaaaaaat 300
 tcatactttt gttgaaatct tactgctatt aactcaataa cattatctta ctttcctt 358

<210> 36385
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36385

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 anacaacgaa aaggaggggg tggatgagca tgcacaccan cnnanaaann naagacacgg 120
 caaacaaaag ggaaacaaag aagagaatat tattttaaac gaaagggacg acggaggagg 180
 gaggggacga gaaaacaaac aggagcaaaa aggacaaaag gaagccacaa acaagacgag 240
 agacaggccg aaaaacaaaa aggtgggagg cggacaagag acggaacagc gagggcaaaa 300
 caaagaacag gggaagagcc cgacagcggc caaaggaaga gaaaccagac acgcgaatgg 360
 aagggaccgg aggaaagaaa gaaagaccgg agccaggagc ggagaagcgg aacacgggga 420
 acaggggacg aaagcaaagg cacggggccg aaggaaagac aaactaaaag gaagaaagaa 480
 aaacc 485

<210> 36386
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36386

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 cgacagtcac cgcttttagga gcgttgtaga ccagcagcgc tttgaagcca tcaagggatg 120
 gtcgtttctc cgggagcgac gcgtccagct cagggacgac gagtatactg attttcagga 180
 ggaaataggg cgccggcggt gggcaccact gggtactcct atggccaagt ttgatccaga 240

E **F** **G** **H** **I** **J** **K**

gcctcgccca	caccagcgta	cgccacatng	acgggaagga	gagggagaaa	acgatgaanc	60
aaagaanaga	aaagatgtta	taaaccnccc	ccaagcncgc	aaaggctttg	aagcatacca	120
gnacacgcga	nncatanaac	gaccgcagcc	tgcaagcnag	aaagaaacac	caaagncgaa	180
gttaacaatg	gacccacgcg	gaaaaacaaa	agcgaaagca	gaggacacaa	ctgcccaact	240
ggccgacacg	cccacgaatg	ataaagcacc	gcggagaaac	agcaggacca	ccgaaacaag	300
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gaccacgaac	acaaaacacc	cacgcaacaa	gcgaaccaga	agaggcgcgga	aaacaccaca	420
agacacgaaa	cgctcaaaac	ggcaagcaac	cgcagcgaca	acaagcagag	cagggcccca	480
cacaagccaa	acgcaaagca	cacacaaagc	caccc			515

acccttcca	ctcgcatata	gaatattatt	ctagaggttc	tctctcacat	tgacgacaaa	60
taaaactcac	ctgttaaggg	aaaccatgca	ttaatatcac	tgatagatta	tcaacacttc	120
cgatttcacc	acaaaacct	ctataatgta	caatcacatt	cacaaaatgt	catacaatta	180
tctcgcgaca	taataccata	atcacatctc	tactctgtta	caaacct		228

15160

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36389

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 gggagctttg agcagatggg gttgttgata ctggcgaaga gggaacacca gctgctctgg 120
 acctggtttt ccttgccctt ggaaaattaa ctatttggtc attcacattc caacatttgc 180
 ttttaatata ggccaagata atgaccagcc tcatgctctt gttagctgta agagcatcag 240

<210> 36390
 <211> 461
 <212> DNA
 <213> Glycine max
 <400> 36390

acctatagaa actcaagctt gagcttgccc tccattatga gcatggagga gtttgtctca 60
 tttgtggcct ggccaggaga ccagtcttct ggctctatag ggggtggggc ctccacaacc 120
 caggagcctg tgactaagga gcctgcagca gaggaagaga ccactccagc tcagactcct 180
 cagccatctc caccatctga acctgctcct gacgagactc aaccatcatc agcactggat 240
 cttaatgaag accagccaca ggaggagcag gacgtttaat tttttttttt tgcattatga 300
 acactttagt tttatttcag ttattttatg ctttatgtca tttaaatttc agcttttata 360
 tttcagtagc atagttgttt gtttgcttga acaaaaagct tgattgaaca gtgaattgat 420
 tgaacattgc atgcagtgga ttgtttggta tggaatgagt g 461

<210> 36391
 <211> 491
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36391

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 aaaacaacaa aaannntnna annccaacag cagccacnt gatgcagcat agaagaccg 120
 agannccaaa acgaccgagg cagcaacgng cacaaaagaa acaaagccgt tagcacaagc 180
 agcgcgcccg aacggggaaa accacagcca acccccaccc ccagggcggc ccacagaaaa 240

accaaggacc accgcacaag ccgggagcga aacggaggca acaagacggg gcacaagaac 300
 cgcaaagaac accagcggga gcagcgagga acgaacagcg aaggagaaga aagcccggac 360
 ccgagcagga accacgaacc gcgaggagga aaacacccag gaggggggga agccacaggc 420
 gggggaggag cgcgacacca caaaacggac aacggaacac gcgaggagaa gaacaccccg 480
 caaggaacga c 491

<210> 36392
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 36392

ctttatatac aataaacacc ctctcataat gcgaaacaaa atgcggacac atatgtacaa 60
 caatgctagt cttccagtgt tatatataat ggagatgttt ctaatgaaaa aagtcttaaa 120
 atgacaaaatt acaaaaaatg cttttaatcg tcagattata attaaaaaca atcaagggct 180
 gagattaaga accccgaaat tgattttaac tgtttagatta taattaaaaa gaatcaaggg 240
 ttgagattaa aaattgatgc ttttaatctc aatccttgat tccttttaga tataattccg 300
 cgacagtt 308

<210> 36393
 <211> 322
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36393

aggggaactt gaacgagcat tgcacnctcc gnaaaacngg ccncggaaca agccaaagcg 60
 aaacattcct ccccccaaca accacggggg gggagagcaa acccccacc aacagcgcaa 120
 aaccaaaaac gagcaacaac acgaagccag ccaggcgacc cagaaacgaa gaacgaacac 180
 gcaacacaca caccacacc aaagacaccc caaagacacc ccaaagagac gacggcgaaa 240
 caacccgagc aaacgcaaag ccaggaaaag caaacaagg caacccaaag aaacagaaca 300
 gaggccagga gcacaaggaa cc 322

<210> 36394

<211> 135
 <212> DNA
 <213> Glycine max

<400> 36394

cacacgtact gccaaagggtg attagttact tacatcacac acatatcctt ggctaaattc 60
 acatacatgc atactcaaag cattttgggg gacaaaaaat tgcacatgtg cacatctagg 120
 tattcataat accta 135

<210> 36395
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36395

ccgccccct ttggatttga tgcacatggc annancncan ccatanagaa cacaagcccg 60
 gngcgcagan cccacgagca ggacgaggca ccattttaat taccctcgaa ggcaaagacg 120
 accggacacg ggaggattat acgaaaaccc ctctcgcaag accagaggaa actcacgcag 180
 ataatgacag atcacccaaa ggagaccgaa gactcaagcc gagaaccctc taggaagacc 240
 aggccntagac taatcacgaa gcatggaaca acgagaacaa agccgaaact aaacacgcag 300
 atccctcgag agagactaac gggcaaaccc gcatggacca gagggtaaag cagcaagaca 360
 cagcccgatg cgaaaggac gcaactatgc acacgaacgg gcggagcgga ccacaggcac 420
 accaacagaa cgcacggacg aggcattgaac acaagaacca agcaaggcag ggacgcaana 480
 cccg 484

<210> 36396
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36396

aaagcccacc ctaacgcata caacacctta tcataagtag aataattaag ggtaagacca 60
 cttaactttt cactaaaata agcaattgga tgaccttctt gcatcaacac agccccaatc 120
 ccaacatttg aagcatcaca ctcaatttaa aaagatttta gaaagtctgg caatgcaagt 180

atgggggcat tagctagctt tagcttaaga acatagaaat cttcttctag tttatctaca 240
catctcacac caacatTTTT ttagcacttc attgagaggt gctgccaatg tgctataatn 300
ctacccaaat cgcctataaa accttgctga accatgaaaa ctcc 344

<210> 36397
<211> 358
<212> DNA
<213> Glycine max

<400> 36397

agcttttata ttttatatgc aaggaagcat gacttatgcc taggaatcta aattttggtt 60
ttgaatgtaa aaaggcatga atattaggac atgtttgaga ggttttatta gaatttaaata 120
ttggctgccc catgaggaat accttgccacc tacgtagcat ggaaaatacc tttcaacggt 180
atgtatatat gtgaatgtat atggcataaa aataccttgc aaagtgtgaa tgaatagcaa 240
aaaatgcctt tcaaaatatg tatatttggtg gataggtagc gtaaaaatgc ctttcaaaat 300
atgtatatct gtggataggt agcataagga gctctctttt tttttaaaaa aatgtacc 358

<210> 36398
<211> 207
<212> DNA
<213> Glycine max

<400> 36398

ttccatacca ctaaacttaa ggtcgataat ggaacgagat gataaaagat tggagtaccc 60
tttctgctgg acgaccgaat aatacaatgg ggaagacgac aatgaggatg gaatgggtgc 120
taaggatgcc ctaaaggctc ctgaccgacg agcacttgaa gccgtagcgg aggcggaaaa 180
accctttcat ttcttagaca attctgc 207

<210> 36399
<211> 352
<212> DNA
<213> Glycine max

<400> 36399

agcttttttaa ttctcatgac tgctttaaat agctacataa tttgggattc ctatgaccaa 60
gaacatcatg acaattggga ttcataattt ggctgtttg ttgaatgttg ggcattgcat 120

aggctccttgg accaaatttt gatgactatc tttaatgggc tggtaaaaga ggctaaattt 180
 tttgcaacat gcaatctacg ttagtgcatt tgggtgaagg taacacatat ttaagggttt 240
 ttgggctcag cagctgattt ggaataagaa taggtgtttc acttctgttt ggtgcaaaag 300
 caataaatca agggatatccc taacagagag actgagagat gaggtaactt ta 352

<210> 36400
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36400

acactttaga aactcaacct ggatgttctt agattggata tcttgcccaa cagacangtt 60
 cttctatatt tgaaaaacca gacccgagga ggggttcaaga tgtcgagagt ccgtctttca 120
 tgggcacaca cacagactgc atgcgcaata atttggaaga accaaaacaa gataactctt 180
 tcatggtaat ggctggaggt ataatatgac ttatgttttt gcgtttttgc tcaatgccct 240
 gtgttccatt attgtagttt gcaacatcac aggttaaaat tttaatctag catttggtat 300
 taaagcatta atagcctctg ccttgttcat ttttggtttt cagtatttat ttgatttaac 360
 ttccgttatg gtatctagag cctcatttgt tataaataag atgacaaatc tcttatttct 420
 ggtcg 425

<210> 36401
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36401

agcnttagga aaaccaagcc aaagagctgg ctgcattatg ctataacagt agcaatggaa 60
 atgaaaagag caatttggac agtttgggtga aggccatatac tggagtatct gttgctagtc 120
 aacctgaaca tacaaaggtc agcaaggcca aacagaggcg agagaaaaga gctcaacaag 180
 aagcagaaag ggagcagaga atccaatcag agcagagtga cattataagt gatcgatatga 240
 ttgagaacga gaaattggaa aagaagttga agcctcttgg tttgactgtt tgtgaaataa 300
 agcctgatgg gcactgcctc tatagagccg tggaggatca gctggccctc 350

<210> 36402
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36402

tgaccaatcc cgacccaacc cgggcatagn cttttgngtt tacctatgac gtacctaaac 60
 aggtgagctc ctgtcagtc accaataaaa gaacaaagtc caciaagcaa ggaggcttgt 120
 gtggcggctg gccaaactatg aatcttgagt ggtatctgga atttggcctc tgataatcga 180
 ttaccaaggg tgtgtaatcg attgcaaggc ttaaaaatgg agacaggaag ttaagatggc 240
 ctctggtaat cgattaccaa ggggtgtgtaa tgcattacaa ggcttaaaaa tggagaaagg 300
 atgttaaggt ggctctgggt aatcgattac caatgctgtg taatcgatta cacagagtaa 360
 caagacactg gtaatcgatt actagttatg tgtaatcga 399

<210> 36403
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 36403

agcttttttac caaaataaaa attataaact gaaattttaa agctgaaaca taaagataaa 60
 tataaagact gaaacataaa cataaatcta aattataaaa tgtagtaaag acgagataat 120
 aataaaattg ttcaaaaagt atggaaataa aaatcctgat cctgtcaatg atcctatgca 180
 tgctcattca ggtccagtc tgggtgcagat gatggatcct aagaaagagg cagggtccaa 240
 actggtgcag atggcttaag ctcatgctga ggatattggct ctagtactac aagatcctcc 300
 tgaacaataa ctgaatcagt ctcaaaaatg aaagactcag gtggagtg 348

<210> 36404
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36404

gacacttaga aactcacct tctctctgat accatttgct ctcaggncat atatctatga 60

gtgnagncta taaatcctgt cagcaggccg atgctacagt tactgggtat ttcttccatg 120
 ttcatgcat cgtaagtttt aacaaactat tcatgatttt acaaagtgtg tgtgtttgtt 180
 ctcaccctaa gaagtactga atcgcttctc cctcttggat tcgcattgag atcttgtcaa 240
 agatagtaaa tgcttagtta ttgactattg ctcacaaaaa tgattattct ttgggggtata 300
 accacatggg ctttttgact ctcatgatat ctatctattc cttattaata ttgcaaaggc 360
 tagcctcaaa caatcatggt gcactgctga tctgctaata cacattgtta atat 414

<210> 36405
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 36405
 ttgcttttaa tcaccatcgt acctccaaac ctatatacat ccactcactc taacaacaat 60
 ctcacagcct gtactttatt tgtatttact aataacttat ctttaaaatt aattaagtct 120
 aatcatgaga aaattaaaaa atcttaataca agtgaattta ttgctatttt gtgattgaat 180
 tttaaatata aatttaacta atacctacac tatgttgcac aaagataatg taaatatgta 240
 ctgacttata taggcaaaca atgcaatttg tgtgatgatt aaagtgtgat taatagtaat 300
 taatcataat acctttgtgg aggattgagt tc 332

<210> 36406
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 36406
 aaagttattg gcgggggaat ttgctcagag gttcaacatt caatttcgag cgtctcgta 60
 tattacagga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 120
 gcttcaacat tcaatttcga gcgtctcgat atatgacagg acgcaatcag acatccgagt 180
 aaaaagttat tgtcgttga attagctcag aggttctaca ttcaatttcg agcgtctcat 240
 tatattacag gactcaatga gacatctgac taatacgta ttgtcgtttg aattggctca 300
 gaacttctac attcaattac gagcgtctcg atatatgaca tgactcaatc agacatccga 360
 gtaaaagtta ttgtcgtatg aattcg 386

<210> 36407
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 36407

agctttctct aaatttacat tgatgtttgt atttatggga ggaggttgta tgtcattttt 60
 gttttaagag tagtgtccca ctggtaaaac taactttcca aatgtttgcc ttcgcaggaa 120
 atggccccga ggaagcttgc ctcaaagagg tccaggaagg acaaggcagc cgaaggaact 180
 agttccgctc cggagtatga tagtcaccgc tttaggagtg ctgtacacca gcagcgcttc 240
 gaggccatca agggatgggc gtttctccgg gagcgacgag tccagctcag ggacgacgag 300
 tatactgatt tccatgagga aatatggcgc cggcgggtggg c 341

<210> 36408
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36408

tcttgcgtag ccgctcttgg tgctcagaac atccanaaa cttatccctc ttattactag 60
 ctattttgaa ttctttagtt cctgaatgta caactttcaa attgttggtc gttcccctct 120
 ttgttttatg caaaaaatga aatcaatatc aaacaaaaca tgcatacaat tgtcatcggt 180
 attgctactt gaaccataag gaataccatc taaagaagta cttcaaaacg tttatttatt 240
 ttttttggtg ttttttgaat tacaatttga cttcaatatc taatttttta atgtacttag 300
 gtggaggatg ttgacgaaga gaacgagaag gaagaaagta atttaaagaa gattaaggaa 360
 gtgtcacatt tttttttcct cagcaaggaa gtgtcacatg aatgctcggt ggtgaacaag 420
 cataaggcca tttggatgac agagcctt 448

<210> 36409
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36409

ccaccacccc aagaaacgga atttnntaat ntaaaacaag ggataggaaa aagagagcaa 60
 aaannnaggg gcgggacgag tgaatcagca tgcaaacaag cgacacgccc gggaccgaac 120
 aagaacgaag aggaacttta tctaaccana acacacccaa acaggacggc aaacacgaca 180
 aaaaacgaag acggaaaacg aggaaaacca acaacaacaa cacaacagcg aagcaaggaa 240
 atagaaaccc aagagaaaca aaccgcagaa gaacagaaga caagacaaga aagaaacaaa 300
 aaagaaggaa aaagatgaac cgaacaaaca caccgcca agagcgaacc agaacaaccg 360
 aaaaaaac gcaaccaaga acgagaagaa cggcgagacg aacaaccaga ggggcg 416

<210> 36410
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36410

cgtggggcat atgtacttta agtgagagag aagatattta aatantggaa taataattaa 60
 tattacgagt aaataacata tacaagatg attaattttt acataatcaa tcacatatta 120
 tcatataatg taaattgatt gatagtaata ataaaaatat aaaattcata ttaattatga 180
 tttaagttct aaacattata gatgatatga taaaaaaaat gtgtataaaa atgagaaatt 240
 aagcaataat gagagaaaat aaaattgaat aatgaaagag agaaagagtg tgaccgtcac 300
 agcttccaat agattggtgt tgtcgtgcaa gtacttgagg acccatgtta gaacactcgc 360
 tgtggtgtca tgtgcagcaa agatgacacc aatgagatta tcaacaactt gagaatctgt 420
 gtgctgctga tagtacatct tgttc 445

<210> 36411
 <211> 186
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36411

agtnntatgg aggacaanac aacgccgctc tccgggatct taaggaaaaa tcaactccact 60
 tacggtgacc gatcctccgt taacatcgag actgcacttc atccaaaatc cgaccacggt 120
 tccaatgcy tgtatgtcta cacaacgtga cctacttgat actcctacca gagaaatcac 180

<210> 36412
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 36412

cattccaact actatacgtg aaagctcgga gagactaagt gttaaacaat actcgggctt 60
 ctgagagata gggggagtcc aatgccgtgc ctgaaatgga atttagaaca ctcggataag 120
 cggcaggcca gaatatatat atagtaatcg agatgtgaca aatggtaatc ataactcatg 180
 tgttaaggaa aactggacgg aactcaaagc gaaggaacta cttcaaggaa acagattcta 240
 catcgatcat acgcgataca taagggattc tattagcact atctgccctc cttgt 295

<210> 36413
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36413

ttcacaacaa agagaagaga ttaatgaatg atcgaagana tcattttttg tggatgncnc 60
 ctccacctgg ggaacgtgac aatcactaac acactcatct catgctctca tgatggcttc 120
 ctctttaagc tcagttctct gccaatcttt gcacaacaaa agctctcaaa actctctgga 180
 acttggaact ttatctctct agaaatctct aaacatgaaa aatctttgag aatttcctaa 240
 actccctctc catttctgat ttcaggctta aatatgtggc cttgttggtg cttgtgctgt 300
 tagcgcaagt ctggctcgct tagtgcccat aagtgaatat cggcttaacg ctcgtcttct 360
 cgcttagccg aatcatgcag gtggtgcgta tagtacgatg agtccttgct tacacgtgtg 420

<210> 36414
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36414

gagaggatgc ttcantggag gaaaagagag agggagagaa atagagtttg gggagcacga 60

aatcgaagga ggaaaagatg tatagaagtg gaactctgac gtatgtctca caagactctc 120
 attcatcaaa gttacaacaa gtgttacaca tgcttctatt tatagactag gtagcttcct 180
 tgagaagctt tcttgagaaa acttccttga gaagcttctt tgagaaaact tccttgagaa 240
 gctagagctt agctacacac acccctctca taactaagct cacctccttg agaagcttcc 300
 ttaagaagat tcaagctaga gcttagctac acacccccta taatagctaa actcactctc 360
 atgactaaaa acatgagaat aatataaaac agagtcctta ttacagagac aactcataat 420
 gccccgaaat acaac 435

<210> 36415
 <211> 622
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36415

cgcgcacacg ctctttgaaa tcgatgagcn atagcnanna ncgngacacn atagaggaca 60
 tcnagcctcg cgtcctctct tacancctgc agtatgtaga agcaagattt ttcacagtag 120
 tatggnaggc nngagcacia gccgcggaac cgggagatct tcttatagag gaacgctgct 180
 ctcactctc cgtctcggca gacacaaaga gctcggcaag ttttgcaact agcgctgata 240
 tgaatcatag cttgtgtcac tcggactcac aacaccaact cctttcgggtg aatctctggt 300
 gcacgctcgc gcgtgtacag aaaagtttct catagcaaca gagaacatcg atataacagg 360
 gagacgcacc tcaactcttga ctctctacta aagtgcata ttttcgaaag taaaagtatg 420
 ctagtctagc acccgtggag catgtctgtg acgacatgaa acgtccatgc caacgtgagc 480
 ggccagtgc ccatatggga gaaaaaccag agagacacac gtgagacact tagagcgggtg 540
 gtgcgcacac ttggagaaca gagtcactta tacctntcga ctctactcag gtccaaacga 600
 gcgtatccgt gcatctcacc cg 622

<210> 36416
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36416

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 cagagagctg atgttattaa ctgagattct tctttctgac cgactgaagc gatatctaac 120
 atctatatgc ttgattctat catgatgaac atgaccttg gctaagcata tctttcagga 180
 ggatatgtga cccttttttg tctttgattg attccaaaat tgagctgtgg aggatcaggt 240
 tcagcagcca aatgagacaa tagcattgga atcttctgat ttctcacctt cttgaagaac 300
 tactggagat gttacagaat gaccctcttt tttctagtct ttggtgatag attctacatc 360
 cttttctcga tgagagtggc agctgtatgt accagcaatt tgaacctcaa gcttgggatg 420
 aaac 424

<210> 36417
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 36417
 agcttttttag aatatcaatc tttataagca aagaggaaaa atctatcatg acaaaaagtt 60
 gtcaaaaagg aattttcagc ttggccaaca agtattgtta ttttaattcta gattaacatt 120
 gcttccaagt aagctgaagt gcaagtgggt tgaccattct tcatcaaaaa agttatgcca 180
 catggagcaa tgatattgga ggacccaacc accaaaagga catggactgt gaatggcatt 240
 agaatcaaac actacttagg tggagatttc gagaggctaa ccactgttgt ccaactgcaa 300
 gaagcttgaa cccaacaagg acatccatct attaagacgt taaagaagcg ctctt 355

<210> 36418
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 36418
 ttgctatttc aagcttgaac cctaccagca gcattcatta ggttctaaaa tcccaaattcc 60
 caatagcgtc taattatagc tcacatatct ttatttcttg ttgtcaaaac tagagttatt 120
 ttggatgtaa aagctaaata ccttggttgt gtagtcaaag tagttaaata accccacatt 180
 ataatgcaat acttgatccc tatatgttat attagtacag caaagcagct gctacaccaa 240
 agcaaatagt ttctatataa catgctcaaa actaaagtac taaaatcaaa actggacaaa 300

cagatatagt aagaattttc ttctataaat tttaatgtac attctgtaac atgctacata 360

tgaatattcc aaagtgaaca aatgtgtggc actcttaatg gggcaaa 407

<210> 36419
<211> 249
<212> DNA
<213> Glycine max

<400> 36419

agcccgttgc ctttcacata gcataggttt ttcatgggtg atcaacctag gctgtggttg 60

caaatttgag aatctctcca ataacaaaat atgaaccaag tagtaaaagg gtgaccaaag 120

agttacctct tatcatcaac caaactaact actgctttct tcaacagacc cacatcattt 180

tggatgtcgg cttaaaatat cggccgcaaa gctgattatc tacatcaggg aaaacaaact 240

tgctcaccc 249

<210> 36420
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 36420

aaatgtttaa ttatacagtt tatccaaata cactgatatt ttatcacatt nncnctgtag 60

tgggtgtagt gagtcaaatt tctgaatatt cctatgactc ggggtcatgt aattcgagtt 120

ttatatgtaa actgtcacca tacctcatgg aaaaatcact ttcaaccaag ttacgtgcct 180

tggcatcatg ctggaacttt gattttgtaa gtacatatcc aaattttgaa taacaattgt 240

gatgacattt tggctccttc tttattgtga cataaagagt ctgaatatac aatacttgca 300

gttacagttc tccgactctt ttcattcttt ccatctacca aacttcatat aacaagtaga 360

ctctctattg cttcacctct tcattttcat tcttcttggt cttcac 406

<210> 36421
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 36421

agcttgactt aacttgnnaa aataatccga gtggagtttc atatttgagt ttgtctattc 60
aattaaatat ataaatttga tcgaatattt tatatttaac ccgattcatt tacatcgcta 120
ttcaattata tgtaaactcta tctattagat ttttatcacg ttaatattaa aagaattatt 180
attactagaa aatttttaaaa aatatttaaaa gggagtacaa ttatataaag tgtttatcag 240
atcaaattga ttcgataaat ctgataattc aaatcaaact aattaaatta gtttgggttg 300
attggttaat tggttcgttt tactttaatt atgaaccaa ctgatt 346

<210> 36422
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36422

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attgttcaaa aaatacttgt aacaattcca gaaaaatatg aagccacatt gacttccttg 120
gagaactcaa aagatctttc tactatcacc ttggcagagc ttttgaccgc acttcaggct 180
ccggaacaaa gaagactcat gagacaagaa ggtactactg aaggggcttt ggtagctaaa 240
tcactggaca aaaaaaagaa gggcaagtca cgaagtttca accacaaaaa tggtagcaaa 300
tcctctcatg attttccatc atgtcctttt ggtaaaaaaa acaatcatct acagacgaag 360
t 361

<210> 36423
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36423

ccgccgccga caaaaaagga agtagaaagt taaaaaaca aagaaaaaga aaagagccaa 60
aaaaaacggc cagagacgtt gatcgtgctc accaggcanc ggccgggagg aaacgaacga 120
ggggacctgt ttaggacca gccagcgggg gcaacgacaa gccacgaaac cgcgcaaaaa 180
aaccaacaca aaaacgacgc gcggcgaaaa caaaaagaac cagcgggacg cacaagggaa 240
ggggcaaaga cgaaaaaagc ccacaacgca gaggaaggcc gaaacacaag gaaaaagacg 300

agcagaaaag gaaagccgag acagaaacgg gcgggaacgg ggaaaacgca gaaaaaaaaag 360
gagcagccac 370

<210> 36424
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36424

tattggaggg agaattattca atccgaatca tggtaacnttt tgtaacgaag aatcttttttg 60
cggcttttag atgaggacag gtacgagcct ccataaagcg acacacaact cccaccgcat 120
atagaatatc gggcctcgta ttggtttagat accttaaact cccacaaga ctcttgaaga 180
ccgtggagtc taccttctct ccttcatcaa actttgataa cttcaagcca ccttccatag 240
gtgtgttcac gggattgcaa tcaagcatat taaatttctt caacacttct tttgtgtagc 300
ttccttgtga gacaaagatc ccattctccg tttgtttcac ttccattccc aagtaatatg 360
acatgagtcc catatctgtc atatcaaatt cagcagacat ggactccttg aagtcttcaa 420
acaaatttgg gttattg 437

<210> 36425
<211> 371
<212> DNA
<213> Glycine max

<400> 36425

agcttgtgct tttctattga gtgacttgat gcaattaagt gtttttctct atttaagatt 60
gtttctgtgt tctatgctga gggcaattgt accacacacc gattcctcat gtgaatggac 120
taattctatt taaacctcgt tctcagatgt ctogtcgaac ttaacctaaa cgaattgcat 180
tacgattaca acatattaaa aactaaaacc ctacactctg tgtccagtaa tgcagttatc 240
tagccctgct ctatctaatt ctaaggattc caaacatttt ccaatgctaa aaatcctaac 300
tttacacaca aatggatgat cagaccaaaa gcatgcaaga attaagtgca gataggagca 360
atgaacacat c 371

<210> 36426
<211> 427

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36426

gaattgtata atatatatat atattccatgn gggttttatac gattntttta catacgcggt 60
aattttttat atatgatacc cttacatgaa tgggtcaaacc tcaaattgat tttttttttt 120
gtatgaataa ctctcatggc ttggattttc tgatttttagt tataataatt aacaatatgt 180
gtgtgagtgt tagatagata taagagttat tattcaaagtg ttttaatatatt ctaaacggat 240
ttgcagcggg aaaaatgttg atacgtgtca taccctgatt tcgtccaggg attatcggtc 300
gttgatcttt tgatccttgc tagtcgactt acggtactga tcgccagtta caatgcgaaa 360
tagatgatca ttcagtgttt tgattaagaa tgcaaaatat accaaaatag gggcaaaagg 420
gtcttttt 427

<210> 36427
<211> 199
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36427

agcatttgata atcaatttcg agcgtctcga tatattacgg gactcagtca gacaaccaag 60
tgaaaagtta ttgtcgtttg aatttgctca gagcttcgat attccatttc gagcgtctcg 120
atatattacg agactcaatc agaccaccga gtaaaaagtt attgtcgttt gaatttgctc 180
agagcttcgg cattcaagt 199

<210> 36428
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36428

gagcatatgc aaacgacaat cactttttta cttggatgtc atantgagtc tcgtaatatg 60
tcgagacgcg tcgaaattga agaccgatgc cctgagcaaa ttcgaacgac aataactttt 120
tactcggatg tctgactgag tcccgttaata tatcaagacg ctcgaaattg attatcgaag 180

<213> Glycine max

<223> unsure at all n locations

<400> 36431

ccgagagcat ngctcatttg agcgttacag cctnttttnc tttgttgctt aagaaaaang 60
ccatcgcgtc ttctttcttt ctcccaaagt catctctaac gtcccaagca ctttctccat 120
caccacagc cagcattagc caccacaaac caccgttggt ctccattgaa accccacacc 180
gaggggaacc cttcaaccgt agtgaaattt tccaacttgg ctagcgattt cggtagagaa 240
tgaaacccta atctgacctt tcattttcct ttgaggtaac catgattcca tgtttgtttc 300
agcttgtctt tgcacttttt atgactttgg aaccaccatt gcatgttgta cgcttccttg 360
gtaaaaccaa aatgctctca gctctttcat gaagtaacat ggggtgttga cccagagcat 420
tg 422

<210> 36432

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36432

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cttgtgttca ttatgttcga taaataaaaa tacttttttt ttttttgta tgtgcatgag 120
agtttcaatg ctagttgtca cacaaatgta ttacacaaaa gtacctatca cataaagagt 180
ggctatgcaa ttcagaatgc atcaagaagt tttagattgt gtggctacat tctttggaac 240
caaaggcatt gcatggaaaa attactacat acccatatct aacgggaatt tctatttacc 300
tgcttgcttt ttttgaggga gatgtcacca catgttatgc aggatgggtg aagtagtcaa 360
tattgtatca tcatcatgga ttttcgcaag aatattactc ggtgaaagag cagtctatgc 420
aatgat 426

<210> 36433

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36433

taccaaanca caaacctcat ataatgtaga acctcatatt tcatcaatta attctattta 60
 atatattata ctttctaaaa tcagaaaaaa tatgcgata gcatttatct aatatttgag 120
 atgtttcatc aagattaaaa tatcccataa tttacaatt aaaatcattt gatttatatt 180
 ttataaaaat tattaagtag aacatgtgtc taaaatgttc tcttggtgca tcttcctaatt 240
 gtgtctaaaa ttatatgctg caaacacaat ggtgagtcatt tttgaagagg caaatcttaa 300
 tacagtttta caagtgtttt gagtgttgct aggcgcacca ctcacat 347

<210> 36434
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36434

ggagagccac cgcgcggtgg ngtatgaggg ggacaaggac gagccaaagc gaaagcggaa 60
 gccatgaatg atcgaaataa agctaatttt aaaaaatggt cttcatatcc caaatcaaca 120
 aatcttgttt ttgtgcaaaa acttacaaat ggcatatctt gcatttcatt tgttataaga 180
 actgtgtttt ccaggataag gaatagtggg ggaatgatcg gacgttctac agaagggaat 240
 ggccctttatc ttcttgagaa gcaatgtatg tcggctatag aaaaaaacta gtctcattca 300
 tgtcagagtc tctacttcca acaaggaaaa gatttttact ctttcattat cagttaggac 360
 atccctcttc t 371

<210> 36435
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36435

agentttaca tttccaggcg taaaaccaac ttgagactta gtttggtctc atgtatacca 60
 tctctctctt cttttatata tttagtgtgt taaggcattg cagacaatga ttattacatt 120
 gtctatgctt ttggcaaaaag catatatata taactcaagc tatttggtta gtagctagta 180
 acagatacta tatatgcagc ttcagtagta ttttgaattg cactttctta gtttctctga 240
 aaattacatt gggttttaggg tccaatgccca tgtagttgat tgcctacact gtcggttcat 300

tgtgctgaga tatcaacacc tatatttctt attcatttat cattgttata t

351

<210> 36436
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36436

ggtcaagctg tctctctcct atttgtatat atatatgtnt tttgaattaa ataaaactaa 60
gcaactgagg gaaaagtttc tctcctcaca tattcaaact ttaagtgtat gcatagatct 120
cctacaggta atttagttcc tctagacttg gaaattgaag ccacgttaag aaagaacaaa 180
gccgaaagga gaaggaaatt gttgcaagac aggatagtag catccatttt agacgaagaa 240
gttcaatctt gtgattcagc atcatggaga ttattatttc tattccacaa ataaattgtg 300
atttgtgtcg aagagagcat tacaaggaca attgttatct ctattccacg aataattctg 360
ggtggagaca ggagtttaat ccttaccatc attatgaaga agaaaa 406

<210> 36437
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36437

agctttcctc tttttgncca ggacagacaa gggggcagat tgaactaaac ccgctccaca 60
ctatgatagt caccgcttta tgagcgcggt acaccagcag cgcttcgaaa ccatcaatgg 120
gtggtcgta cttcgggagc gacgcgttca gtcctggac gacgagtata ctgatttcca 180
aaaagaaata tggcgccggc ggcgggcacc actggttact cccatggccg agtttgatcc 240
acaacttatg cttgagtttt atgcctatgc ttggccaac 279

<210> 36438
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36438

agcagcggtc agttttattc ttttgtactt gcancactta gaaatttgac caagaggcaa 60
gagngnaagg aaagaaagaa anacaggacg ctttttgcgt tttctccaag cacncagnaa 120
cnggagagcg gggcgagctc aacaaagcca caaccaggca agaccgcnaa naancgccng 180
gacagcgagg aacaaacaga gccagcagca gaagaccgcc naagcggaca aaacnaaacc 240
aggaccaac caccgaccgc aaagagcacc ncgcgcacgc gcagccgaga ggaaagccac 300
aggggcccgg gacaacaaa gangangacn cagagccaca acgacagaca ccccagcagc 360
gaacagaacg ccaagagcag caagccagaa agacccgaga aanancgcgg aaagccagga 420
ggagcccaac cgaaagggac nncgacaaga ggagagcccg aacccaaacc cg 472

<210> 36439
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36439

agcnttanca tgatatgcac tctatctctc aagtgtctat gctattgttt actctcaaag 60
caccatgaa aactgtaaca tcctagaaat ttctaccgg agttttcgga aacgatgtat 120
tttgaatgat tatatatata taagtattat tcagtgtata tgcaaata tgttcttggg 180
agaaatagga gtagtggggg caagatacgc gggtaggct aattaaggaa gagaaatcca 240
taactgggag gttatgggtt aattcttaag taattagtct aaaaatcatc gttttgcatg 300
cgacttaaaa ttaacgaaa ccaacctctg aaccacgctc ggggttt 347

<210> 36440
<211> 243
<212> DNA
<213> Glycine max

<400> 36440

gttgcccttac actcatcggt ataccataag aatagtcaca ttatgttcta aggatgtgtt 60
gaatattcat tctgcggatt gaaatctaga aacatctttt catgtatact agtctttctc 120
tcctatatt atgaacattg aggctaattt aagcaacgaa ttcagttcat aacatgttct 180
aaaactattc ttagatatga gctttgtag agaactcttt cttcttttgt gatctcta 240
gta 243

<210> 36441
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36441

agaggaggag annangtgaa cactgatcct tgtataccca aggcattcga gctcggcccc 60
 gggatcctta agcgactgcg gcatgcaact tcgctttgct taagcatcga agcagtgtcc 120
 ttcaacacct cttttgaata aatcatcacc tagaatcaca taattgacaa ctctatcaat 180
 tgtcgattga ggattcttca agtattcaaa taaaagttta cgccaatcat ctaaagacaa 240
 agtaccaatg ttgagaaccg catattcatc aagtaactta tcttttattt aaatttctct 300
 ttagatatcc tatactttga agctatttga gctaactcat ttgctctaac atttcaatct 360
 ctatgcacat gtttgaaagc aatgtcatta aatctcttta caaatctaca tgctcgagta 420
 aaatatttca ttaaattaga acttatgn 448

<210> 36442
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 36442

cgcgcataac agcgggggatg ccaatgacta ttaatttttt ttacttaaaa tcccatttac 60
 actagtaacc caaaacacat actaataatg taataaggac ttgaattagc ctttttcctc 120
 tcttaatcaa ttcaaactat tatactgtat ccctatgtgt aaaagaaatt ttgatagttt 180
 gtaaagaaaa acgtaattaa taataagctt ttggtcataa acttgaaata caattcatat 240
 tttaaaaaat atttatgtgt atgatgaatt gtaagtatga tataacgtga tatattaata 300
 aaatatatat gataaatata a 321

<210> 36443
 <211> 816
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36443

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 tttcnnnaaa atnaaaatga atnaantaat agaagaaagn gaagcatact ccantacaaa 120
 gncnnttn nanannanng nannagaagg gannccnca gcagagcgcg gnacgttttg 180
 acantttggg annagacnant acgccnnana nccannann nnnnaancn nngcnnncn 240
 cacgggggcg anacacganc gaaaacgaan gcacacanag ccagcgaga cagcgacacn 300
 tntctatgca ttgctatata ctacacaaat gacctgacct gccacacgcg caacacgaca 360
 gcgagaatga cacgacgcac atcgacagac acagaagcag cagngagcca aagaacctaa 420
 cggagaacaa cacacacacn acacgtatgc acgcaacgcg ggaataaagc gaccgcatag 480
 ctcgggagcg gcacccagac cacagggaca cgcacaacct aggcaccaa ggacaaaaga 540
 atacagatcg cactacacaa aatactcag agacacgccc acactttctca acgaagcgac 600
 agagacgacg atacactata catccagcaa cagagtacac ggagtgcgcc gcacacgcca 660
 gacagcaatc cgcgccctcc gcgcgaacat caaccggaca caggccact ccanagacag 720
 aagaangaca gcacaacacc cgccgatact aaaggcacga catcatcaac gctaagagaa 780
 agaaagaact gtgacgcaac cacantactc gacacc 816

<210> 36444
 <211> 472
 <212> DNA
 <213> Glycine max
 <400> 36444

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 accatcctat ttcaagaaaa cagggcagag gcagagaact ctgccccaaa cacattccaa 120
 tacaacagct ttccctactc aaatacccca gtaacattct ctttggtccg attcgttaac 180
 cgttggatcg actcgaaaat ttactggag gtccctagta cataattcta cttttgacc 240
 gttgggatct gctagaaaat gttcataacc caatatgtac tacctttccc ataaccagca 300
 atgcacaagc attttttgca caagaacaaa aattctgctg cacaattcaa cagcaatttt 360
 ttgcataata ggcagatttt cgaaatccct cttgccctca tccaattttg ctcaaattgg 420
 atcctacaag tcctaaatca tatataaaat gtatttaaac caaaaaaac tt 472

<210> 36445
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 36445

agttttctca agaatgcttc tcaaggaagc tacctatctt ttttatagaa gcatgtgtaa 60
 cacgggggtgt tactttgatg aatgtgagtc ttgtgagaca caactcaaag ttccacttct 120
 ctcccttttt ctcccttcaa ttctgtgctc cccctctctt ctttctctcc ctctttcttt 180
 tcctccattg aagcatcctc actcaagctt cttatccagg cgagctcagc tcgcccaggc 240
 gagccagggt gcttcctcca gaagcaacag ccttctggag gaatcttctg gagggcccaa 300
 gtggggcctgg ttgctatttg cccccctatt tttactaagt acacccctt gccttttttt 360
 ggtgattctc ttttcataaa gttacagaaa cttacgaatt tcgtaacgat acttgttttc 420
 tttccgtaat gttacggaa 439

<210> 36446
 <211> 201
 <212> DNA
 <213> Glycine max

<400> 36446

agctttgtat ttccttttag tagggaatct ttccttccta agatggagcc aaacctagtc 60
 .cccctcatta agaactagct catttcttcc tctattgccc ttagttgaat acacctttgt 120
 ttggttctct atttgggtct taaccctctc atgcaacttc tttacaaact ctgacctaga 180
 ttccccctct ttatgtataa a 201

<210> 36447
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36447

aattagggat catagttatg aacaaggcca tattgaatcn taaggataca accaagagga 60
 aggcattggac tattatgaga cctatgcccc tgttgctagg ttggaagcta ttatattgtt 120
 gcttcctttt gcttgataaa taaatttcag gttatatcaa atggatgtaa aagtgttttt 180

ctcaatggat atattgaaga aaagatatac gtggagcaac ctctaggttt tgtagacttc 240
gatcatccta atcatgttta caagttgaaa aaggcactat atggattaaa acaagcacct 300
agatccttaga attctctagt tctatccaga aagagttgga gatgtctatg atgagagaat 360
tgactntctt ccttggactt caagttaaga aaatcaagca tggaaccttt ntatgccaaag 420
caaagtacta cacataat 438

<210> 36448
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36448

ggagccaggg gggcccttgc atactngatt ccaaccatat gtgatagccg cctatgacac 60
cattgccact tcccctaage tcgttatctt ttctttccac tacattccat gccttacata 120
ccctctgaag agtctttgca ttatcttcat tgaaacctcg tgcgatgaaa ggtgcgatgg 180
tatacctccga tggcgcacct ctcatagggt aaccaacta tcttatggct aacacgggat 240
tataattaaa gtccctatca gaaggatata tgggaacctt tcacatgagc ataacactcc 300
tgcccatcct tctttccatt gtgggaacca actaatggac gcgcctatca tgccct 355

<210> 36449
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36449

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aagcccatct aatctatcta attaaaccaa ttacacaaaa taaagcccaa actcgtagcc 120
caattattca agtgcagagg ttctgacttc caagctcaat ttaaccctca aaatggcaga 180
attggccaaa tcttatttgt agaaaaaatc gaacctcttg ttattagtta ttgagggact 240
actcacacgc tccatttggga gttctgaagt gtcctataag cctgcacaa cgcacatagg 300
ccaagtagca caattatcaa ttaagctcaa agaattttct aagaccaaga ctatgttaaa 360
gtg 363

<210> 36450
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 36450

gcacaagggc caccgaaggg gggtagatcc tgagaaccac tcatgactga ccctccaaag 60
 tgaagatgcc cagattgcaa ctatgggcca caaaattcgā aaagctgaag atgaaggagg 120
 aaaagtgtat tcatgacttc cacatgaaca ttactgaaat tgccaatgct tgcactgcct 180
 tgggagaaag gatgacagat gaaatgctgg tgagaaagag cctcagatcc tcgcctaaga 240
 gaattgacat gaaagtcact gcaatcgagg a 271

<210> 36451
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36451

tggaacttng aaaagttgtg tctttataca tgccctttct cttgattggc attngnatng 60
 anagggggcat gggagtctct atcttantca tatgtaaatc atgcatcatc atgtagtgtc 120
 aggaagattg tttctaaagt tagaaacatt tgcagtgcac aaaattctct gttttaattg 180
 attttaaggt tgctcgcaat cgattactta agtggttgta gcattcagtg agattctaata 240
 ttcgatttaa tcgattacca gttattcgta atcgattata caatttagtt gagaccatgt 300
 ttgggttttc atgagtctct actttaatcg attactaggt gatcgtaatc gattacttca 360
 ttcttanatt tgctccaaaa gtgatcaaga tcactctaata cgattaaatc aagaatctaa 420
 tcga 424

<210> 36452
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36452

tcatttcgtc taacctacta tgtctatgan gnnncttatn gattggcaaa gtggtgacct 60

ataagaagga ggatctgagc acgattgttt gtggcaca

398

<210> 36455
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36455

ccccccccc caaactcact tgaatcaaag aaataaagag aaatagaaac nacnaaaccc 60
aaaanaaggg aaaagtaagt tcgagcgctcg caaaccaagg cgaaacaaca cgccgcggga 120
ccccagaacg accgaagcag caagctttca cacacacgca ccaagcacng gggagcgag 180
aaaaccaaga cgcaccccac cccgacaaaa ccagaaaaca acccccacg acccccagg 240
acaagcacgg aagcggcggg caagaaaaca cacacacang agaccacag gacaacgaga 300
ccgcgaccca ggcaccacaa acaacgcaaa acaacaaacc acccgaccac cagccgcca 360
gccaacgaac caacaaacaa caacgccaca caacaacaac cgagacacgc agaacaccaa 420
cacaagggca aaagcccaga gccaacccca cacgaagacc aaacaaaaca cacccaaccc 480
cc 482

<210> 36456
<211> 224
<212> DNA
<213> Glycine max
<400> 36456

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aaagtatgac cattgaatct ttagactccg tgatcattttc gagcgtttat atggagacct 120
tatgacctcg gtgaaatatg accttgattt cagacttcgt gtcaattgga cggatgaattt 180
tgcgccgatc gaatctggaa agtatacata gaatctcaga ctcc 224

<210> 36457
<211> 343
<212> DNA
<213> Glycine max
<400> 36457

ttacttttat aagcttgctt tgatctaatt ctgtgaagga ctcaatttca acaatgttgg 60

aaaggaaaag tcagaaggac aggcgagaaa ggatcacaga gaacactaga aagagggagc 240
 actgggtcaac acccaactgc gtctccacgg atataaggca caatacggat agacacccga 300
 cactcaatat agacactccc aacatatcga gatagaaacg gagaagacta tgtagaagat 360
 acagcccacg tcttagataa cagtgcagga aggacgcaca tcgagactta taagagaaac 420
 taaagcactg gcaaacatac g 441

<210> 36463
 <211> 168
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36463

agcnttttat atatcgaggc gctcgaaatt gaacaacggt aagtcttgag aaattcaaatt 60
 ggtcataact tttaactcgg atgtccaatt catgcgcatc acatatagag acgctaaaaa 120
 atgaacaacg gaagctctcc agaagttaaa atggtcataa gttttcac 168

<210> 36464
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36464

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 tggtcccttt ggtcctttcg caacttgagt tcaactattgc taccatag agctccgcga 120
 aatttggtcc ggccatactc ttccttgcca gccctcttgg tctcttggtc aagggctctt 180
 gcggtaattg cattctcttc cgttaacccg gcacactcct tccgaacgtg tgtagcggcc 240
 aacttgaact tctccttggc aagttttgcc tttcctaact cgctttcgag agcttggact 300
 tcttcgtcct ctttcggtgc ttcaaaactc tctttgctga cgacttttaa cttggcgagc 360
 caatctaaac ctcgtatatg aactttcagc cattcgtggt accaccaat gatgccat 418

<210> 36465
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36465

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agctttttta actatnngct caaaaagcca cgggagtaat tttttattag tttttaacgc 60
tttttaaacg ttagttgaag tatcattttt taaaacacta atatttaact tttagttttt 120
atattttctt tcatttttat ccttaatata cttgtcaa at ctcttactta tcttttttaa 180
aataaatcat aattttatta ttttcacgta tttcaatagg taattttatt aaatacttat 240
aatttaataa actaaatttg gaatttcagt tattaatttt catgaacata acctagggtca 300
aactagagct ctttaaaaag tcaaactaga gatgc 335
  
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<210> 36466
 <211> 422
 <212> DNA
 <213> Glycine max

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<400> 36466

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tgagtctgga gtcacacact gcatgtaaaa gtctggttgc tctggctccg gcgatgaacc 120
tcttcgtcca tgcgagcgaa tctgttctcc atcgtcagtt tccactccaa attctcgcg 180
gcgctgtcca attcttcatt cacgatctcg tgtagccgct ccttgacat agtcgcaacc 240
ttggaaacga aaacgatata acttctctaa gtctcatgcc ctcgacggcg gacttggaga 300
ccggtggggc gccgtaacgg atacgattgt actcggcgag gtgctcctcg agaccctccc 360
cgtagaagta ataccctggg gtgactctcg ggaagctgta cgttctctcg agtcccttat 420
tc 422
  
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<210> 36467
 <211> 126
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36467

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agcnttgatg ccgatgagca agtcatcacg cgcgcgctca aggaactcgg cggcggcgcc 60
ggccaccccg ccaagaacga cagcattccc cggccaaatg gcaccggcac tggccggcag 120
cccccc 126
  
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<210> 36468
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 36468

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 cagggcggtta tatctctcat aatttcacgc taaactaaaa atacttatgt acaacaatca 120
 cttgacctgc ctgcacgcgc gctgtgact gtccccacagg cgactgcacc acctcagtc 180
 tctattagac agtatattatc acatgactct gtctgtactgc cccggctctt ctcttataat 240
 cgccgcttgt a 251

<210> 36469
 <211> 255
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36469

actccttgat cagcagcacc cttgtaggca gcngccacaa gcgaaaagca tggtttaccgc 60
 acaaggccgg ggaaaacccc caaaagcgcg aagaaaaaaa cgaacacgcg aagggcggca 120
 aaccggaagc cagagagcga ggccaacgcc gagacgacac cagaaagaaa gacgagaaaa 180
 acagccagcg cggaacacgc gaaaaaggca acaaaaaccg aagacggaca gaaaaaaaac 240
 ggaaaacaaa gagac 255

<210> 36470
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36470

agagcancac cnnccnttt tgagccaata gtannancac acncnattag annannngnc 60
 ngggggagct agcatgcctc ggattcattg gnaccacaac cagattaatc tgggtccattc 120
 gacaccncca accacgcaga gntatttgta gagatacact agacacctca cgttcnacag 180
 gtatacagta ttaattacgt cagcctaacg cgacacacta cctatctcag ctactaacgg 240

atctacatga acacgctaca gagcaggctg ctcgtaggcc aacaaaacac atccctaacg 300
gccttaacgc accagagcta agaatagaata atgggtctatg gagacaggca ctctacagca 360
tatgctacgg tgtactacga ggcgatctac acaccgtaca tgaatatacc accgatccgt 420
ctagggacgg accccctatt ccttacgant atagacaacc cctacactga atagtagacc 480
accctactac acaaccactc ttttgccc 508

<210> 36471
<211> 322
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36471

agcaccttat ctgcacctct tactgatagc agtngngatta ctttctgagc tgctgactgg 60
gtaggggtgtt tttccattat cacctcctca tgcagcagca aggatgattt cgttcagatt 120
tgaatatgcc acccaattgc ctccctgtgt cttttgagga cctctaccaa cttggggaca 180
tactctactg aggactccat actgatcact acaagctcgg actcgttctt ctccaagaac 240
acatacttaa tgtgggtggg ttaaattctt aatatcaact tgggtcttcac ctacatgagt 300
gtttacttca tgatctaagt ct 322

<210> 36472
<211> 274
<212> DNA
<213> Glycine max

<400> 36472

ctggaataaa aagtaatacc agactcgtga ttctaaagct tcacccctgg gcgattttga 60
aaacagcact tcttgaagt cacgggaatg aacgcccacc acaaccatta actggaaacc 120
aagctcatga tcgcgttaaa gacattgtaa ccgtgtttgg gaagtccac aagaacacat 180
catctcccaa caacatgtgg aagaaacgct caatattcat tgatcttcca tactgggtctg 240
atctatatgt gcgacactgt ctacatgcta tgcc 274

<210> 36473
<211> 511
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36473

agcccgtna cctgatngct agtactttcg cancttgcta anatcgggga tcctcagagt 60
cacctgcagc atgcaagctt atttatccac aattntgcat atcatctttt tatttgacta 120
tanatattaa tgggttggttg ctacagtatta atttcatgta tattttcctt tccttatagt 180
aaagagtatt tgagtagaaa atggaatcat ggatgtggtg tttccttctc ttgttccatt 240
tgctcttcct ttattttcca cctcttcatt ccttatgcc accccatgac acctctgcct 300
ttgtccact tcaaaactcc ttcactatnt atgaacatcc ttattattct tatttttgtg 360
atactggnta ttcanagacg acaacatgng aaaatgggac agatngttgc tcttgngctg 420
gagtcacctg ccaccccatc tcaggtcacg tcaactcagct cgacctcagc tgcaatggcc 480
tttacnngca tatncatnnc aacagtacgc n 511

<210> 36474

<211> 239

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36474

tcgatgcaat taagttacac atcattcggg tgtcttattg aagaactntg cacatttgtg 60
agcaagacat aatttggtga tgcagcactt aattaccaac ttatatgaaa atgatatgcy 120
gttatgcaaa atccacatca acaaagtga ggccacgtca atgtccattn gaaatgggat 180
tttcttttta actatccgct catgcanaan atgagattta acttattcga agtgaatc 239

<210> 36475

<211> 367

<212> DNA

<213> Glycine max

<400> 36475

attctctact acatcatcac ctgcatgcct gaaaaagaaa gcatgaatgt gccatatcca 60
atctcccttg tgtcttactt cctacttta ctgttatcat ctttgcacct gtatacacia 120
cttctgatct tatttactcc cccatgagtg ccacagttct taattacctt gcgaagcata 180

gacaatccgc gacgccccct gagagaccag ttctcttcta ttcccatggc gtattctg 418

<210> 36478
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36478

agcttggact ttctgtgttc tgggaacctc tccttcctca ggtgtacca aaccaatca 60
cctggttcaa gcacgacttt ctttttgctt ttgttggett gccttgcata gctcacattt 120
ttcttttcaa tttgagcctt cacttgctca tgcaacttct tcacatactc agctntagcc 180
tgtgcatcat tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240
aaaggattaa atccatatac tatctcaaat ggtgaacaat tagttgtgct atggacagct 300
cgattataag caaactcaac atgaggcata caggctgtcc aagatttaag attnttctnt 360
aatacagtc taagcagtgt tcctaaagtc ctattgacta cactcagttg accatc 416

<210> 36479
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36479

ctgtncatt gcttcagatt gttgcacaga agggcatttt tctgtgtggt ggtcggcaga 60
ggagcataaa ccacagagtc tagcgacaag tgcataattt ttattcatgg ccagttgggt 120
tactaggtta accaaggcat ctagtttacc ttcaagcttc ttagtctcag ctgatgaaga 180
tgaattcgtg gctacttcat gcactcctct aatgacaata gcatcatttc tggcactaaa 240
ttgctgggag tttgaagcca tctttctaat taaatttctg gcttcagcaa gggcatgctc 300
tccaagggct ccaccactgg cagcaccaat catacttctc tccatgttac tgagtccttc 360
ataaaaatat tggaga 376

<210> 36480
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36480

agcttgtcat tggacaatat ggactctata gcatcctgaa tgtgactctc tgcgtccaac 60
agattctcct tgcaatcagc caaacctgt tgaaccttag gttccaaatt ctggctgctg 120
atcattctct tacaatcatt tagaatgctg ctgcgatttg acgccgcagc cttcagagat 180
atcattgcca gctcctctag gtccgcgtga tcaactgtctg ggtccgagga aagcacctgc 240
atgcacaatt cattgtttcc cctgtttttg catatgctct taattagctc cttgcctaatt 300
ttttcttccg ccgcaccgct tcngtgatgt gctagaacca accacatgca tatgcccac 360
accacaaca a 371

<210> 36481
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36481

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aactttatatt cacaaggatt atttgtgaac tgtttgctt gacgatatat ctggtttaatt 120
ctttctcagc agaagagatg gtggtttaat cttttccatc acttaccat cacagtatca 180
cttttttttt tcttttctct ctatctctct gttatttcca tctcaatcta cctcaacttg 240
ataaatatat cacttctcat gttacgacgt tatgggtgta atcatgaaaa attgaaaagt 300
tgagtagata aaggagtggc actgcttttc ctttactcgg aagtcattgta atgtactagc 360
tagganaatg aaggaatgag aaaag 385

<210> 36482
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36482

atcttgagat tangaagtgt agaagggtga aacttcctgc ttttattcgt tggccacaga 60
gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcat gtgggggtgct 120
attgccc aaa accaagcttg accaatcccg acccaaccg ggcattagtcg gtcagtgaga 180

acctgtgatg tacctaaaca ggcgagctcc tggcagtcaa cagataaaag gaacaaagac 240
 cacaaagcaa ggaggcttgt gtggtggctg gccaaactgtg aatcttgtgt gatataaagg 300
 ttatggcctt tggtaatcga ttaccaatgg tgggtaatcg attacaaggc ttataaatga 360
 agataggacg ctaaaatggg ctct 384

<210> 36483
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36483

aggttattta aatactctaa cattagagta tgctagcaat ctcatatata tatatatata 60
 tatatatata tatatatata tatatatata tatatatata tatatatata tatatatata 120
 tatatataat tntaataaga gatataattta taataaaaat attgtaaata aaattntcta 180
 attatTTTTT attttaaaaa attatgtgcc catcataaaa ataaatcgaa catcgcccg 240
 tcatacatTTT ccactcttca ctgtatatta ttattattat tattatgatc attatgatta 300
 tataacacaa aagtctcctt tagttataga atatatcttt aatctgcgtg tatatctaga 360
 gaatacaaac atatactgna agtgtattct ataactatgg ctctg 405

<210> 36484
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36484

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 gtatgtgtac atgattttga taatgtcaaa gaagaatcta acaaggctgc ttcaaagat 120
 aagcatttgc ttcaaaaata attcaagatt acttcaacaa acaaagcatt gtttcaagat 180
 tcactaaaga ccaagccttg ccttaaaaca aagtgccttc aagacatgca aggctttgg 240
 aatcgattac caggaagtgt aatcgattac cagaagacaa gggttgagaaa tagctgttga 300
 aaagagtttt gaatttgaat tttcaacatg taatcgatta ccagcaacga aactcttgaa 360
 attcanattc aaaagtcatg acccttcana ttataactgt gtaatcgatt acacaaacat 420

tgtaatcgat taccagtgaagagtttttc

448

<210> 36485
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36485

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gaacaagggc acctccccac gtttaagtaa ttgtgaaatt taacgagggt tctatcacac 120
aatacaaatt aaacttctcc accaaagaaa cctccccaaag aaacgcccac cctagtatat 180
tgccttgagc tataacacat tcttgttgcc ttgtctctcc tttttccttt ttttttttat 240
tggtgataga tagatagatg taataaaagc aaaggccgtg tttgaagaaa ataaaataat 300
gaataacaaa ttagagcttt ttaattgtct gtgcgaagcc tactgaaact tacatgtgca 360
aaacattgtc tcgataaaga taaaaataaa aaaattagaa gatgtcatct nattatttt 419

<210> 36486
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36486

ctgaatggac gttagtnta gtaatagtca ttctagctta agtatcttaa caacattntc 60
ttttaggcta tgtaagaaag aaacagacaa agccagtacg acgatgataa aggagcatta 120
tttgagacat gagtgctcgt aatgaatcac atcaagtata tgtgacatga gcacatgatg 180
tgtgccttta actgaaaaac attaacaatt cggaacacta agcaatccaa gtattttcct 240
ctgaagattc ttccattgtt taaattaataa gatagaagtg atccatccac tgcagttggc 300
aaataatcta gaaattntgc aatttaagta cgtataacat gtaacggtga gagttcacgt 360
aatagaactg caaaactcac aaagaannaa agaattcaaa aacaacgaaa tggtttagcac 420
ttggcagagt gtataacat 439

<210> 36487
<211> 392

[illegible]

atttntatat	gattggctaa	gatnncgtta	aaacataagc	acttagacaa	tgaaggaaag	60
ctggagttgc	tgcacatgat	gtccaacgtt	atgtcaaaga	ataagatcgg	gctgcacaat	120
gcacaaggca	agataaagtg	tcaaatgaag	aattgaagct	gcaggattca	cgatgtcgga	180
tacaatgtcc	aggacatcct	gcccgaaaat	actggagttg	ctgaaagcat	tgaagttgca	240
agatccacga	tgtctgacac	gatgtcctga	catccggccc	gaatatactg	gacatatataa	300
tctgttatat	ctntaacaga	ttattgtgca	gttagcaaga	gataagatga	tctatcttta	360
ggaacgaatt	aagagataat	tatagttcga	at			392

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<223>      unsure at all n locations
<400>      36488
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gtgtggaaga	gtcagtcctc	ctatTTTTat	ttgtttacca	cagagaggta	cctggagata	60
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cttgacaaat	cccgaccaa	cccgggcata	gtcagtcaga	gagaacctgt	gatgtaccta	180
aacaggcgag	ctcctggtag	tcaaccgata	aaagaacaga	gaccacaaag	caaggaggct	240
tgtgtggtgg	ctgccagct	atggattctg	agtgatatct	ggaatatggc	ctctggtaat	300
cgattaccaa	gggtgtgtaa	tcgattacta	agcttaaaaa	tgatgacatg	atgttaagat	360
ggtctctggg	aatcatttcc	aagag				385

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<223>      unsure at all n locations
<400>      36489
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tgtctntaag tatcaagatt caagaatcaa gagaagactc tatcaagata agtactaaaa 60

agtgatcacg tatgagctaa ctgatgcac tagactactc ctcaaggacc acccttttag 300
 tttgaggcct ttgttgctag tcacacttga tccaagtgtg attaatgcat ggtgtcaatt 360
 ctctacttgg ctcaacaag 378

<210> 36492
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 36492

gtcatggtgg ttgtgatata atcaatgttt ctatcttgtc actgcaaaat ttggaaagca 60
 aaaaagagga tccactacct atgatgttaa gtaacataag ggaacttttc tcttgctatc 120
 attctctatc tgtttttctc tctagcatac ctaaccattt tattaagtca aatcatattt 180
 aagttattaa tcttggtatg agatgacaat tattcactta agttccttgc agttaattat 240
 tagcattggt tttaaagggt agttagtatg tttggactat atataggata ctgatagtaa 300
 ttaaataaaa tttgttttgg caccttatgt gctaattagt acatttcgat agatttcaac 360
 catggattac cttcttacct ttcgtaa 387

<210> 36493
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36493

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 attcaatagg taaattgatc catctgcgct atttagatct ctctcattca agtgtagaaa 120
 cactgccaaa gtcattgtgt aatttatata atctgcaaac tttgaagttg tgtgggttgca 180
 tcaaactgac taagttgcct agtgacatgt gcaatcttgt taacttgcgt catcttggtg 240
 ttgctgatgc tcctataaaa gagatgccga gaggaatgag taaattaaat catttacaac 300
 gtctggatct ctttgttgtg ggcaagcacg aacagaatgg gatcaaagaa ttgggaggac 360
 tctccaatct tcgtgggtcaa cttgaaatta tgaacttgga gattgtctcc c 411

<210> 36494
 <211> 435

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36494

tgtatgtgtt acaatgttct taaatttcta tttagttttt aagaacaacc tgtctaggta 60
atTTTTTTca gaaagacttt taacaaaata agaaaagaaa agtttttcat aattacctta 120
tacacaacct aatgatagaa gctctttcat attagttttt ttcaaaagat atttttaaat 180
tatgtataaa ctaacattaa cttatagata agtntattta attttttttc tttctatttt 240
cctttttttac tagtacttct aaatacattt atccaaatag acccttaata ttaatatata 300
tcaacaatac ttacatccaa atgatcactt aatcaagact tgaaattatt ttatataaaa 360
taaccagatt aattaaccaa ttacgtgctt gggtttcatt tctaacaatca atattagtaa 420
ttatttagaa ctttt 435

<210> 36495
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36495

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ttcaaaaccc cgtacttaag gcattacact tctttatcat taagtggaaa tagttaaggg 120
tanggaccac tttaactttt tcacttaaaa taagccattt ggatgggcct tcttgcata 180
acacagcccc taanccaaca ttttgaagca tcacacttca atttcaaaag atttttgaaa 240
agtttggaac cgcaagtatg gnngcattag ttagctnttg cttaacattg aaagcttctt 300
gttggttctg tccccatttg anaccaacat tnttcttgag cacttcattg agagggtgctg 360
ccaatgtgct aaaatcattc acaaatcgtc tataanaact tgctaagcca tganaactcc 420
tcactn 426

<210> 36496
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> unsure at all n locations
 <400> 36499

acaaaagtgt tacaacagaa cctatcggtt tctaattata tgggccatta aatctatcat 60
 gtgttgacag taattgggta gcccgtgaat ttcctctcgg gctgaacaca ctncggccat 120
 ggcccttgct ttggctagta gtcgcgggag gtcttgactt tcatttaagg tcaaggcgaa 180
 cctatccatc cacatggtcg cttcttgatg caatgcatca atcacccctc ctctngcttc 240
 cttctcngcg tatgcttggt cgaagtccct tactagcctt tgctcatggg tcanagactg 300
 gtttaaactc tctttgtact accctattat agctagcatg c 341

<210> 36500
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36500

agctngagct gggaattttg atncatggat nnctcaagaa gaagatagat agtgacatgt 60
 ttgtatggtc tgcattgatt gaatagtatt caaagtgtgg acaaatgaat gatgctgtga 120
 tagtgtaaac agagtatcca aaaccagacg tggctttatg gacttcaata attactgggt 180
 atgagcagaa tggaaatgct gaacttgac atgcncattt ctcccgaatg gatgtgtttg 240
 agctagtaag tactgatcca cgaacacttg ttaatgctgc ttctgcttgt gacgcagtat 300
 ctgattctaa ccttgaaga agtgaacatg gaattgtcaa acgaaagggt tttatactaa 360
 gtatgttttg caattcta 378

<210> 36501
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36501

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 gcgtgggtta ccattattgg aaaccccgca tgcaaatttt tatagaagca atagatctaa 120
 atatctggga agccatagaa attcggccct acattcccac tatggtggaa gcaaatacaa 180

ccatagaaaa aactatgaaa gaatggagtg aagatgacaa gaaattagtt caatacaatn 240
 taaaagccaa aaatataatt acatctgctt tagggatgga tgagtacatt agggatatcaa 300
 attgtaaaag tgaaaaagat atgtgggata ccctacacgt aacacatgaa ggtacaacaa 360
 atgtaaaaag atctgggata aatacattga ctcatgaata tgnaatattt agaatgaatc 420
 ccaatgaaag catatatgat a 441

<210> 36502
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 36502
 gagaggagaa tgactgactc aaaccactta cagactagac gacagtcagc ggtgtactcg 60
 tgtccgcccc gtatacagaa cctatcaact ctagtgccta tgtacaaatt atcatacact 120
 tcaaattcac tctagaaaca aaaataacat gaaaaattga catacaaaaag gccagggttat 180
 gactgaactc caactgaaat ccagccatct gatggcatga cacactagaa agcatataaa 240
 ccatctcacg tttacgcctt acgatatcat ttcttgaaaa c 281

<210> 36503
 <211> 295
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36503

gcagcggagc aacaaggatt atacttctga ccacttggtg acaaaggctc tcaagccaag 60
 ttaagaacca actcttcttt aaattcaagc tattangtgt agttgaatgg ttctatatct 120
 ttaacacatg ttgtacttta ttgcagttg aatggcttcc atgtaagctt gtacccttga 180
 atattaagag agattatcta atacgcatga ttttcttaat attatccaat tattcaataa 240
 tgactttaat tctcatatgc ttgattttct tcttaattat tctaattatt tatgt 295

<210> 36504
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 36504

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 gtgctactac cacaattcca agctcacggg agagtgaagg agccagggtat gaccaaactt 120
 ctctgtagt ttaacaaacc aagcaggaag atgatatgtc aaggatgatcg aacgtgcaag 180
 agaagtgcac aatcgcgcat tagatatgaa aatttcaagg acggtgctgg gtataaatcg 240
 caagtaatct tctaacatac aaagccgatt tgtataaaac cggctttgta acattcacat 300
 cgnaggcggg tttataaaaa tcttcgtgga tgccttcata aagttgaata aa 352

<210> 36505

<211> 226

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36505

acacaacatc ggngatgttg gaagaaccga tgngacgggt ataaacttaa catcggtttt 60
 gatgacaccg atgttcacaa attaattgta gcatccggtt ttaaacaacac cgatgatcac 120
 atcaactagt tcacattagt gctttcaata tcgatgtcaa ttaaccgaat ctattaccac 180
 catgctcttg ataacatcag tttttagaac aaccgatgct aacata 226

<210> 36506

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36506

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 ccatttgctt cgaaagtntc atggccttgc aggtgaagac ccgcaaaaac atctaaaaga 120
 attccatatt gtctgatcca ccatgaaacc cctagatgtc caggaggatc acatatttct 180
 gaaggatttt cctcattctt tagagggagt ggcaaaggac tggctatatt accttgctcc 240
 aaggatccatc acgagctggg atgacctcaa gagagtattc ttagaataaa ttttcctgc 300
 ttctatgacc acaaccatca gaaaagatat ttcaagaatt aggcaactca gtggagagag 360
 cttatatgaa tactgggaga gattcaagaa actatgtgcc agttgccttc acca 414

<210> 36507
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36507

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 agtatttgag attcacttaa aaatagtgag aaaaattatt tctgtgaaga aaatccaagc 120
 cgaggcgctt ccgtaacgtt tccgtaatgt ttccgtgggt gatttcgcaa agattttcaa 180
 ccgttcttcg tcgttcgtca ttcgttcttc gtcgttcttc ggtcttcaaa tcggtaagtt 240
 cccaaaatcg aacttttcaa ttcattctat gtacccttag tggctcctcat ttgtttcgcg 300
 tgcttttatt ttcatttcat ttaactttccg taccctcctt ttgacgtgct ttagtcattt 360
 acttaagtca ttttctcgcc taatcaaana taaaataaat ttccatcgat catttgaatt 420
 gaacatctgt aatttctgta aaatgaaatc gaccgtcg 458

<210> 36508
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36508

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 gatgataaat ttgtcaaatg tgtattttatt ggctatgcta cttagtcaaa ggcatacaga 180
 ctgtataacc cactaactgg caagataatt gtcaatagaa atgttgtatt tgatgaagat 240
 gcaagctggg ttccgggagga atgtgaaatc agtaacagtg tttagcagaa atcagtcagt 300
 tttgatgggt cataagaggt ctcaaagtgt ccagactatg atcacactcc aagccctcat 360
 tcaacgccat caagccagtg atcattagct ccttcaagcc atggatcatc tagctcatc 419

<210> 36509
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36509

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ttctcactct ttttggacat aagcaaaatc ttacccatct tgcttcttag cttacatatt 120
tgaantctgc tcaaaagaaa taatattata tcattgtaca tttgtagctg gtttttctta 180
aatatactct cgttacattg tcgtttatta acaaaaaatt aacaacgtat catatgagtc 240
ttaacatata caataatcga taatataaa 269

<210> 36510
<211> 195
<212> DNA
<213> Glycine max

<400> 36510

atcttttatt ctaaacacag cagcacgggg gacctgactt tttacgggtc aactgtgtgc 60
ctgtaataag acacattgga ttatgatgca aacatgttgt atgtgatgtg aacctaataa 120
tattagtagt gctggatcta tgagcatgac ttgagtgagc atcagtgcggt aaccgatgat 180
gcagtatgag gagac 195

<210> 36511
<211> 367
<212> DNA
<213> Glycine max

<400> 36511

attttgtata ttggctagac atgatacatg tcagggttg gtttggttca aggataaaaag 60
ggatgccccca cattatttcc atgacacaaa tgcaaaaatg acgatttgga aattttatgc 120
aaaactgggtt atgcatgcac ctatgcggac actcaagtgt caaattttta tggatcatgtg 180
atgctacggc tcacgattca tttcctctat tttagtcaac ccaacgtttc caaaatatgt 240
tcttttatca atttgtgcat tcatccgagt ccattgtggg catctgggaa aatcttcaca 300
gcattcacc cttcatgtgta tacacattgt ttcaaaaact agttatgatc agtgaattct 360
tccaaag 367

<210> 36512
<211> 450

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36512

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agctgaacat caagatctaa atcttagnca ctattanatt ctatgttgct tcatcaaggt 60
aaggagagtc tctccaattc ttaaacccta atcttggtgt ctttggaagc taaccttcat 120
tgaatgttgt tttgatgttc aaaatttcat agctactgca taggctggaa ctgtatcatg 180
tggtgtttct cttgtaattt taaggtaaaa aatgagttat ttgggtgcca aaacttaagg 240
ttaaccttat atttcaccta aatcatagtt ttctagtaaa agttatgaac aaaacaagtt 300
taaagaatca cgataataaa tcggagtttt ctagtaaaag ctatgaacaa atcaggagtc 360
tttatggatg tatggaccat ttttcataaa tatttgactt cacaaacgag tttttaagtg 420
tgaaaatata tgggaacatg tcaaattcat 450
```

<210> 36513
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36513

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agcttggatt tggttcacgc tggcgtcgta caactgggtca ngaaaattat tntccattct 60
tagtggctnt tacacatgag gtatgactca actgcatgta cttacactag ctatgtctgc 120
taaattcgac tccaaattcc aacaaaactcc atgcagaata cgcaactctn ttattgaatg 180
ataatattag gattattaat aattttaaaca taatattgct ctctttttta tcaatagttt 240
taaaactatt acaaacgaat gaacacaaat atttgaatta ataaattaat atttactact 300
atattttana ttaatgtatt gngcaatgat atttgaatga tgttanggca tgtntgatag 360
gagatcaaaa ttntaatttt aacaaattat aggttgaaca attaatttct catgt 415
```

<210> 36514
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36514

THE **NEW** **YORK** **PUBLIC** **LIBRARY**

<400> 36515

<210>	36516
<211>	404
<212>	DNA
<213>	Glycine max

tgccgcccag	ctcgcccagg	tgagcaagg	tgcttctctc	atatacaaca	gccttctgga	60
gggcccaagt	gggcctgggt	gctatttgca	ccccacttt	tactaaatac	acccctgcc	120
tttttttttg	tgattctttt	tccgtaatgt	tacgaaactt	tacgaatttc	gtaacgatac	180
ttattttttct	tccgcaagg	tatgaatcct	tacggattat	gtatttactc	ttttttagct	240

ttcgaagaag ttacggaaac ttacggattg cggaanaaca cctcttttcg acttccgcca 300
 cattatggaa tttcacggat cgcgcaagct tgcttccttt agatntctga gacgtctcan 360
 gacttcattt attgtgcaac aaaggacgcc aagtatctca aagc 404

<210> 36517
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36517

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 agtcacctgc agcatgcaag ctttcgttta cagacagcaa taagttattc ggtaccactc 120
 gggttttccg ccctcagcgt gactcaaaat caatatgaca gatcctgtga gcgtggaaga 180
 tgacgttaat ctccgcgtgt caacgggcct tgcggcgcg atggacgaaa ggcgcagaag 240
 acgacattag tctatgcgtg ctatcanggc tttcatctta cagacagcaa aaagtttata 300
 cggataacca ctcggttatt tccgcccgtc agcgtgactc aaaagtcagt atgacagatc 360
 ttgtgagcgc ggaagatgac gtaaactctcc gcatgtgaac gggctagtcg gacgcgattg 420
 acgaaggtcg canaagacga cgttagtctc tgcgtgctat caggcatttc ggtctacaga 480
 cagcaacaag tttatacgga taccactcg 509

<210> 36518
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36518

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 gttgacacgt ggagatttac gtcactcttc gcgctcacia gatctgtcat actgactttt 120
 gagtcacgct gacgagcggg aatacccagag tggttatccg tataaacttt ntgcattctg 180
 taagatgaaa agcctgattg caagcagaga ctaacgtcgt cttctgcgcc cttcgtcaat 240
 cgcgatcgac aagcccgttg gcacgcggag atttacgtca tcttccgcgc tcacaagatc 300
 tgtcatactg actnttgagt cacgctgacg ggcggaaata gctgagtggt tattcatata 360

aactttttga tgtct

375

<210> 36519
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36519

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tatgaaaaga gaggacttga atacaggtaa gtataaaaga tagaccagtt ttgtggtgaa 120
agaataaatg aaatatctgg ctcanacttg attcaatgac ctgaatagct caaggaaata 180
taagcaccta tgatggttat ggcacgtact tcaacaatta attcatttta gaaactataa 240
taattgatac gaaataaaaat gtgtggaaat attgagacca tactgcaa at gagcaagtaa 300
tattcatctt gaggttccaa gtatatattg atggctacac agattaatcc cttgaagtta 360
atatactaa 369

<210> 36520
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36520

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gatgaacctg ggctttcctt caaggaagca aactgccc at tcttccgatg catcctagca 120
agaataaaag acagcaaaaa cagaacagaa aaaaaattat aaatatagaa gaacaaatca 180
aacttcaaaa acaacctgca atcaaacaaa acctacaaga atccctcaaa atggcactca 240
agtaccaact atcaacacaa cacattatgt tcttcagtcc ttagctgttg agaaatatgc 300
tcaactgattt gactntacct gataacaact caggccta at atttcatgat aaaaaatttc 360
aatgtaaaaa caaathtagt cagaccagac nactgacctc ttttcattat aaatctacat 420
atg 423

<210> 36521
<211> 418

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36521

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 gacacagaat tcaccaacaa cataactctag tgctcgnntt gcattatgta tcaatttacc 120
 attgtggtgc aaaataagag tgatttcac acaaatccta taggtgaaca caaacatcat 180
 tatttgtatt ttcacaaacc ttgtttatac acaacatcag taatgaaaaa gtataaatac 240
 aattttgaga acccaaatat aaacctccaa atgaaacatc attcaaaaaa aaggaacaag 300
 aagccaaatg aaaaaagagc atacaatgca caaaaggaaa tgacttcac ttctagggcc 360
 aagaaaaaat gagatgcaat gtggatgacg atatatagat atgcgaagaa aatgagtg 418

<210> 36522
 <211> 474
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36522

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 tctctgactt tnacaataag tatgtgggtca agaaacacca cttgagtcac gacacccgtt 120
 ccagtggaga caataattga ggttccaagg gtgttagaca tcatggttgc atggtaggca 180
 aacatctcac tcatgtggtt cttcaacact tgaccaatgt taggtggcat tttaccactt 240
 ggtatagtgg cttttgtttg caatgctact atgtgcctta cttgcacaac ttttagtggg 300
 aacttttcat aagctgtttc tctagacaac attattccgt tagaaccttc ttgaacaaca 360
 attactaaat atgatacctc tattctggtt agagtcgggt gaacaatcat gttgtctagc 420
 atatgtgatg ccacaataac agtcttttcc atgcttagac acaagtttat tacc 474

<210> 36523
 <211> 391
 <212> DNA
 <213> Glycine max

 <400> 36523

 acgccggtga tggcatggct tcaaacaaac tatacccaca tcaaagagat agcgctaaaa 60

aaacaccttg cttgagatct gcatacaaaa aattgtgata tcaaataacg ccacacctga 120
 gcctctcaat attactaaa gaataaatag ctagtcaa atttattaaa gatacataaa 180
 ccaagagtag ctactggcga gctacacacc gacatcaagc tctcggctgc ttgcataaac 240
 tccgggcatg gcatcaatca cgcccgcaag aggaatatct cgtcgcaaga cccgggtgcct 300
 agccggctctg accattgcta agccaccccc tgaatccaac cctcgcggaa cgctcttccg 360
 cgtgatacat gcaccaaccg tacgtcttcc g 391

<210> 36524
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36524

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 gcataaacca caaactcttg tgataagtag agatttctaa ttcaaggcta gctgggttac 120
 cagggttaact aaggcatcta gtttaccttc aagcttcttg gtttcagctg ctgaagatga 180
 atccgtggct acttcatgca ctctctaat gactatagca tcatttctgc cactaaactg 240
 ttgggagttg gaagccatct tctcaattaa atntctggct atagcagggg tcatgtctcc 300
 aaaggctcta ccactggtag cattctatca tacttctgtc catgttactg agtccttcat 360
 aaaaatattg gagaagaagc aactctgaaa tctgatgggtg agggcaactg gcacatagtt 420
 ntttacatct ctcccantat tcatacaagc tctct 455

<210> 36525
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36525

aggaggaggg gnnggcctcc cgcttaccgn nccnccccac ccccgannc cgcaccgacg 60
 ancnnntana cnganntgan gnatgnaagn ttgaatttat gattgtataa tgggtgaaant 120
 tnntggtttt attngttgag ganagagtgg tanttggaga tatgtngnga gggtnaggag 180
 aaaattggga ngttaggtgg ggtgggtattg nnnaaaagna agnttganna attttgaaaa 240

aannngggna tagtaagtna gtgagaagnt gtgatgtatn taataagggg agttttntgg 300
 ngtnaataga taatagaata aagaaaanaa agnatggagg gttgtgtggg ggnttggnag 360
 atgtgaaatn tgagntgtat atgggatatg gantntgggt atagattaan atggatgggt 420
 tattgattat taagattaat agtgagaatt ggaaatttaa atgatnttta ataagatgaa 480
 ttgttaatat agtaatataa angttaagaa tttgtattg 519

<210> 36526
 <211> 275
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36526

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 cctagtacca catgtgatgg gtaccccata atcctacaag cttgagatga ggaagtgtag 120
 aagggtgaaa cttcctgctn ttattcgttg accacagagt ggtacctgga gatatgtcgc 180
 ggcggtcaag agaccttggg gatgtcaggt ggggtgctat tgcccanaac caagcttgac 240
 caatcccgac ccaacccggg catagtcagt cagtg 275

<210> 36527
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 36527

tgtttgagat gaagaagtgt tgaacggtga aacgtcctgc ttttattgtt gaccacagag 60
 tgggtacctgg agatatgtca cgggggtcag gagaccttgg ggacgtcatg tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccgga cccaacccgg gcatagttag tcagtgagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240
 acaaagcaag gaggcttgtg gtggctggcc aactgtgaat tttgtgtgat atgtgattat 300
 ggctctgtgt aatcgattac caacggtggg taatcgatta ccatgcttat aaatgaagac 360
 aggaggctaa gatggtctct ggtaatcgat taccacggag tgtaat 406

<210> 36528

<211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36528

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 cacttcttga gcaggtacga gcagttatgc aagtgggatc agcaacttcc attatcagag 120
 taatcaagca cagcggaatc tgtagtttag acaagttgca aatcgtttcc aggatgtcaa 180
 gacatctcac atgacatctg ctttctgctt ctgctcccc tgtctccatg cttactgcag 240
 catcttctaa cagctactag tcttttccag gatgtcgaga catctcatgt gacatcagct 300
 ttttgctccc cctgtcttca tgctcttact gcagcatctt ctatcagcta ctagtagctt 360
 acatcagtc tcaacagcag cagtctcccc ctcaaatca tgaatcatgc atacatcgna 420
 tctacttct canaatcata catcatgcat aatgctacta 460

<210> 36529
 <211> 215
 <212> DNA
 <213> Glycine max

<400> 36529

acagaccgga ccttaaggat gcgctgcagc tggttagctt cgcaaacgtt atcggtgtca 60
 tgatagtaat acataacctg aaatgaacaa acttggaatc aacaatcatt aactcgagcc 120
 gtgatccgat aataagaccc aaatggataa gcttgacaaa tcaacaatac ttactcgagt 180
 cgatgatcat ataattaaac tcaaatgaaa taaaa 215

<210> 36530
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36530

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 gctctcgaga gattcgaatg gtcataactt ttcacacgga tgctcgattc gggcgcataa 120
 tatgtcgaga cgctcganat tgaacaacgg aagctctcga gaaattccaa tggtcataac 180

ttttcactcg gaggaccgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac 240
 ggaagctctc gagaaattca aatgggcata acttttaact cagaggtccg attcaggcgc 300
 ataatatatc gagacgctcg aaattgaaca tcgaaagctc tctagaaatt caaatgggtca 360
 taacttttca cttgg 375

<210> 36531
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36531

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 aatccattaa gttgattaag cagctccatt agcgttctct gaatttcacg atctgcactt 120
 gttccctcat tgaaacgacg acctccaatg gcatcaatct catccataaa aatgatgcac 180
 gactaatcaa gaaaagtata gatttagaac atgtntaaat tagtatgtgt aaacctatag 240
 gaagacaatt tcgcacaagt acctcacctg gtgatcacgt gcataaccaa acatctctct 300
 cattaacttg gcattttctc caatgtactt gtcaattatg gcactggccg aaacaaccta 360
 catcagaata 370

<210> 36532
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36532

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 gtatcggttg cttcattcct cacctaccaa atagaaacta ctgtctctct gacaaaatca 120
 tggcctcatg ggccataata tgaagggaat tcgaaaatta ccagattcca tacctcattg 180
 attaccggaa gaccattgat tctataactt acaagagcct ccagagttgt aatccaaaaa 240
 atatataaat aaagtaaadc acatgattta naactatata gaacattgag ttaccttcat 300
 caacggtaat ggtgtgtttg acaacatgcy aatcttgctt ctttgtcatg aaatcagcaa 360
 cgggtgtaagt tccatatagt agcaatgacg ccaaaatgca aacacatana aaaaagaatc 420

t

421

<210> 36533
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36533

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 caccctaata agcaggttagc caaaaatagt tcttttataa ttattttgtc ctcatatttt 120
 ttttaatat catgtagaag aagagtacag tcttgatata acagttaaata tgcgtcacc 180
 tgatatacat agagagtttc gtgttacctc tattgattat gcatgacgtg ttacgtgata 240
 gtacatttca ttttcttagt ttaattactt ggcgttccat aaagtgaaat gcacgtatat 300
 aagaatatat taatggcatg tcaatgtccc ctttaataca atg 343

<210> 36534
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36534

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 aaaagatgct tataatgtga tcgtattang ataaagatgt attcangtca ttggctaaaa 120
 tttttataca taggttaaaa tgtaattctg atttctttat tttataaat ccatgatttt 180
 agtttccatc ttttaaaatt gagatattta gtccttcaat tttctaagat tcttaatttt 240
 ggtcaattca ttcatttgag atgggttaatt gttaattgat taacgttgat catttatctg 300
 gttttttatt ctcatTTTTT tattaccgag taaaagaatt ttaaaaaaaaa aatatttgac 360
 gatattgggc cncgtgtctac ctgggtgagaa tcccaaagct gcccaaatat anggatctat 420
 g 421

<210> 36535
 <211> 397
 <212> DNA
 <213> Glycine max

D **E** **F** **G** **H** **I** **J** **K** **L** **M** **N** **O** **P** **Q** **R** **S** **T** **U** **V** **W** **X** **Y** **Z**

<210>	36536
<211>	421
<212>	DNA
<213>	Glycine max

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cctggagata	tgtcgcattg	gtcaagagac	cttgnggacg	tcaggtgggg	tgccattgcc	120
caaaaccaag	cttgaccaat	cccgaccaa	cccgggcata	gtcagtcagt	gagaacctgt	180
gatgtaccta	aacaggcgag	ctcctggcag	tcaacagata	aaaggaacaa	aaccacaaag	240
caaggaggct	tgtgtggtgg	ctgaccagct	gtgaatcttg	tgtgatatat	gagttatggt	300
ctctggtaat	cgattaccaa	gggtgggtaa	tcgattacaa	ggcttanaaa	tgaagacagg	360
aggctaagat	agtctctggt	aatcgattac	caaggggtgt	aatcggttac	caggcttgaa	420
a						421

<210>	36537
<211>	424
<212>	DNA
<213>	Glycine max

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cagtcaaggt ctgagagacc atacaagttt cctaacgatt tctaattatg tggggcatta 120

agtctatcat atgctgacaa tagccgagaa gcccatgaat ctcttcgggg gcggagtagg 180
 tgtctgccat cgccttgccc ttggctaaca atcggggaag ttcttgactc ccggttcaagg 240
 taagagcaaa ccgatccatc cacatgggtg cctcttgggtg taaagagtcg atcacccttc 300
 ctctagcctc tttttccgcg tatacttggg catattcgtc cgcaatccta tgctcgtggg 360
 ccgcggttag acctaactct tcttgggtact tggcgatgat agctagcatg ttggtctccg 420
 tctc 424

<210> 36538
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36538

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 gggccattaa atctatcatg tgttgacagt aattgggttag cccgtgaatt tcctctcggg 120
 ctgaacacac ttcgcccatg gcccttgctt tggctagtag tcgcgaggagg tcttgacttc 180
 catttaaggt caaggcgaac ctatccatcc acatggctgc ttcttgatgc aatgcatcaa 240
 tcacctccc tcttgcttcc ttctcggcgt atgcttgtgc gaagtcctct actagctttt 300
 gctcatgggt canagactgg tttaaactct ctttgtacta ccctattata gctagcatgc 360
 tttgctccgt ggcttctcaa actcgggagc caatctg 397

<210> 36539
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36539

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 ttaacctagg gaaataaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaacccaa 120
 agtccccccc aacagccaac aagtcagcca ccatttggtc tccc aaaagg ctgatgccta 180
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 attaacccaa aacatatttt tggtcagcca actttacaag gattgtgcca ttatttagac 300

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<210> 36540
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36540

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cggatgctga ttggtcccg atgtatccaa cctcgaaatg atgtgaactc tgacacatca 360
aacgacacaa ttttactcga tgttgattga gtccgtaa atcgaacgct caaatggaa 419

<210> 36541
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36541

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caaatgacaa tgcttaccac cacacatgca aaagctaaat catcaaaaaa gcctaaaagc 180
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gcagctttta ataatcaaga ttcaacagta ccttaccttc aaatctcaa gcattaatca 300
aacttgtagc aaactggcag gctaactgaa gacctgaact acaactcagc atnatcacat 360
ac 362

<210> 36542
<211> 382

Решение

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gatttcctaaa	tgttttttatt	at				382

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<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36545

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<210> 36546
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36546

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agacaactcc tccaaatgtg gcattagttt gagataccaa tgagaggtaa cttcttccca 240
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caaatcact cactgaaaca cctccaagac taagtgttc aacacctagc tcaccattag 360
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<210> 36547
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 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 tttattgaca agagtgtgc taaattttct tatgataaaa aatgagagga ttaaactcaa 240
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 gatgatttga tgatgatcat gatgatgtgt tgcaattgat gcaaattgggc tnttcaagat 360
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 tta 423

<210> 36548
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36548

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 tcgagacctt caagaccctt gttctaaacc accttgatga ttcaaagaat gagtactcct 240
 ctttggtgga gagatcatgt gaactaccag tgatcgatct tggccagttc aatggcgaga 300
 gagacatatg catgaaaaaa attgcaaaac tgctagtaaa tgggggtttt tccaagtcgt 360
 taatcatggg attcacagga gctgctgaaa agccttgatt tgaacaaaag aaattgttct 420
 atcaaccttt tttgaat 437

<210> 36549
 <211> 155
 <212> DNA
 <213> Glycine max

<400> 36549

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ataccacttt gagaattgat tctcacataa ggccattatc ttttttcagg tttcctctag 120
cgatcaacaa ttttcttcca taaatgatca aaaag 155

<210> 36550

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36550

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cagaatttaa atgaagagtc acaactgttc aagacatata actgtgtaat cgattacact 360
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<210> 36551

<211> 151

<212> DNA

<213> Glycine max

<400> 36551

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acaagtcaga aaactatctt cagaaagaaa a 151

<210> 36552

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36552

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<210> 36557
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36557

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 ccttttagcac aaacaaaaaa caccaaccaa gaaatgaatt ttgcagtgaag aaagcctgta 240
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 atggtagcca taaccctagc caaggttcat taacctccat ttttccgaga atacgactcg 360
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<210> 36558
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36558

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 cctttttcaa gtttttgcta cctanagccg catgcaaatt caagcatant ttcctttgct 360
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<210> 36559
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36559

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 aagattccta aagaagctag agcttagcta cacatacctc tctaatagct aagctcacct 180
 ccttgagatg agaagctaga acttagctac acacccccta taatagctaa gctcaccccc 240
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 cctgaaatac aaggctaaaa ccctatacta caagaatgga caaaatacaa ggcccaaacy 360
 aaggaaanac ctattctaatt atttaciaaag 390

<210> 36560
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36560

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 ggcgccatcc actanggaat aagccatgga agaattgagct tcaccaccaa gtgagcctta 180
 gataagaagc ttggaaggat gcttcaatgg aggaaaagaa agagggagag aaagagagag 240
 ggggggagca cgacattgaa ggaataaaaag agggagagaa gtggaacttt gaagtatgtc 300
 tcacaagact ctcatctatc anagttacaa caagtgttac acatgcttct atttatagac 360
 taagtagctt ccttgataag ctntcttgag aanacttcct tgagaagctt ctttgaaaaa 420
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<210> 36561
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36561

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ctcttttctt ttntcattat tttcatatta gtcaatcccc ccccccccc tcatccccct 180
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tcagctatnt gttcagacac cctagagcag tgatctggaa tagttagaag ctataaatgc 300
ataaatcttt gagatctaga agttcattgt cattttgaac ctttctgtga tgtctaattc 360
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<210> 36562
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36562

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tggcacaagt taaataaaat caaagtcacc tcattcttca caatcaaagt atttctctca 180
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ggttgtaagt tgtaacttgg ctggactaca aggagatttg gttctctacg acagcatatt 360
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<210> 36563
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36563

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 gttgaacttt gatgcgcatc tcacaagttt cacattcatc aaagttacaa caagtgttac 180
 acatgcttct atttatagcc taggtagctt ccttcataaa cttccttgag aagcttcctt 240
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 agaagctaga gcttagctac acatacacc tataatagct aagctcacc tcatgctaaa 360
 atacatgaga atataaaaaa gtccctacta caaagactat tcanaatacc ctagaatac 419

<210> 36564
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36564

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 tgctatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa ataaggcccc 180
 aattatactg taccagttgg agatgtatct tccctgcttt ctttgacatc atgattcact 240
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 acccggttga gtgatacatg aagatcttaa caggggtatac aaagaatcta tatcggtccag 360
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<210> 36565
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36565

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 atccactang gaataagcct tggaagaagg agcttcacca ccaagatgag ccttgataa 180
 gaagcttga gaggatgctt caatggagga taagaaagag agagggggga gcacgatatt 240
 gaaggaagaa aaaggagag aagttgaact ttgagttgtg tctcataaga ctctcattca 300

65507-90760

tcanagttac aacaagtgtt acacatgctt ctatttatag actangtagc ttncttgaga 360
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<210> 36566
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36566

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cctttgtttg taggagggtca aggcattact agacgaanag gtatccagtg gacgataaat 180
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aaaaggttgt gcatggtgaa gaagttacta tttgttattt ctatggaaag gtgggtcatg 360
agactcataa atg 373

<210> 36567
<211> 86
<212> DNA
<213> Glycine max

<400> 36567

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agctctatat gctgctatgc ccttca 86

<210> 36568
<211> 700
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36568

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cnnctgtcgt nntttacana ccgtnnctgt aactgggngg aaaacctctn ggcnngntta 240
 cctcaacctt annatcgcn cttggcagcn annatcccc nnnctttcgc ncaagctggg 300
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<210> 36569
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36569

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 tacacacaat caacataaga cgataatgtc atactgacta tgtctatccg cttcatcacc 180
 tagaatgaat attttttaaa taattaaata tataaattat taaaaattgt aataactaaa 240
 tatttataat atttgaatta tatctaaaat ctataataaa taatttatgt tgtgatgcat 300
 tattactttt aattattgat aatttctttt aaaagatatt caaattcaag ttgacactac 360
 aaatattata aattatagat ggaaagagat aacagttacg tctaatacat atatatatat 420
 atatatatat atatata 437

<210> 36570
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36570

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 ttctgtaagt cggtgatatc ttgtntacaa ctaatgatct tggctcttctt catgaggcaa 180
 taagtatttc tctagacact gtgaaatgaa agatatgggt gagacaagct atgtgataag 240
 gatagaaata ttctgaaata aatcataagg attgttaagc ttgtcttaga gaacatatat 300
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<210> 36571
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36571

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 gctgggggca agtaaatntt cttcccatca gaccttgat gcaattgtga tcgtatcccc 180
 atctcagcta gatcttgacg ggtattcaac ccacctctcg tcttgcttg aatgttaagg 240
 agcatcccaa tcacactgtc acatacattt ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcta gatcagacca gtacggaaga tcatagaana tggacctctt cttccatatg 360
 caagtcttac tggtatccct tctttgggtc tttccaaata tagtattcag gtgctgaacc 420
 cgtattatac ctgc 434

<210> 36572
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36572

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 gtgtgttntt gccttgatca catagatgca tngcttgta ggatcattca acagtggaaa 180
 ctgggttgat tcttagaact tgataggaaa tggctagttt atcgtattat catgagggat 240
 cagggtacgg taacctagtt gtttgtatgt ttgtcttatt gtgattctgg tcgagtntag 300

tccaacaata ggaatctaaa gatgatgctn gatcgggatt aggctagact atcat 355

<210> 36573
<211> 517
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36573

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gggttgctcc gctgatagtg atctaaacca tggtagatag ttactcctcc accgactacc 180
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tatacgaca caataagagc tcaactctat ttatacaaaa aagcacatcg cgtaatagtt 420
caciaaagaaa cacagaacac tgctacacac attgcaataa gttctacttg tcagaaccac 480
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<210> 36574
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36574

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ataaggaatg agatggattg ngtcgaacca tctcagcacc gacaaaaatg tagtagatgt 180
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aatcattgat ttatgtatgt tagtgaagtg acttgtattt gtttaagttc tcttaaatgt 300
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tacattactc attttggttt gtatacatta ctta 394

<210> 36575

[illegible]

<210> 36580
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36580

taagctcctt caactgcaca aggcctcttaa tattttatta gtatccttgt ggaaccttca 60
 cccgacgaag aactgacaa aaacttatct tctccttttt ggacaaagta tggcaggctg 120
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ttgtgatcgt gtgccccatat 180
 cagctagatc ttgacgggta ttcaagccgt ccttcgtctt gccttaaatg ttaaggagcg 240
 ttccaatcac actgtcacia acattnttct ccacatgcat aacatcaata caatgtctaa 300
 cgtcaagatc agaccagtac ggaagatcaa agaaaatgaa cctcttcttc catatgcaac 360
 tcttactttt atccttcttt tgagggtcttc caaatacagt attcaagtgt aaacccgctc 420
 ata 423

<210> 36581
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36581

cataagatca ttgttcacat ctgaactatc cacaatcaaa gtgctgtctt ctgaataatt 60
 tctggctgaa tggaactggt aaactctggt ggcattggctg taagagacct aacactgttg 120
 gatatacttg aagtatcagc agcagcacca caataattgc caacaacagc atctaaaaga 180
 tattccagat caacatctct gggacactcc aaacctttta tatgagcatg ctctcttntg 240
 ttgatacaag agttgattac tgtatgtttc ctcaacagag atacatattg acatatattt 300
 gcctgtctct ccatatgaaa ctgatccaag tgct 334

<210> 36582
 <211> 194
 <212> DNA
 <213> Glycine max

<400> 36582

acctgtcctt ctgtgaacta tcacctatga aacatgattc cattctaaga attggactgg 60
aatgttgata tgggggggttg tatgaactgt tgtgcttctt catagtttgc ctctgagaat 120
gttggaagt gaatctataa gtgtttaagt agataaaaaa acaacacata aattaaagaa 180
aacataatg tata 194

<210> 36583
<211> 434
<212> DNA
<213> Glycine max

<400> 36583

tcttcccaa ttttctataa atagggggag aagtgtttag attagtgttc accccttagg 60
cacttctctc tctttcgaat ttgtttaaga aaattgtttc cgtgaagaaa atccaagccg 120
aggcgcttcc gtaacgtttc cgtaacgttt ccgtgagtga tttcgcaag gttttcgacc 180
gttcttcgac gttcttcacg gttcttcagt cttcaacggg taagtacctc aaaccaagcc 240
tttcaattca ttctatgtac ccgtgggtggg ccacatttgg tttcatgtat ttttattctc 300
gttttcattt actttttata cccctttttg acgtgcttaa gccatttatt taagtcattt 360
ctcgcttaac cttaaaataa aataaatttc caccgatcgt ttgaattgac catccgttac 420
tttggttgaa atga 434

<210> 36584
<211> 123
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36584

aactaacgca cacctgacgn ngntttttgn ggggtggttn nnnnnnnnng tngggggggg 60
gggggttggg gggggggggg ggggtggggg ggtggggggg gggggggggg ggatgtgggg 120
ggg 123

<210> 36585
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations

tccataacat caatctaaac ttgctcaaac tgaatttaca cctaaaattc caccgaatca 180
 aaatttgact cctcaacacc caaatttgcc ctagaaatag ctctttgttc attttgatca 240
 tttgttcttc tctctagcac agtccaagct ttctcccaag tcctaaatga catttcaagc 300
 tagtattaac tcactntaac ctccatttac cacagaattc agacttagcc ttccaactct 360
 canagcctca ctcttttttc cactcacaac accacattct cactttctaa ccctaagtta 420
 actctaccct tcattctctaa cagtttccat 450

<210> 36588
 <211> 325
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36588

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 gcataatgta aacctttacg gttttaaagc tctatagttg ggcctaggct ttatagtttn 120
 tccctttgtt aaggctgtgt gtcttctgtt tttgaattta taatacaagg atctttcttc 180
 atctgttctt ggtctctacc cattctcatt catttgcatt tttacttctt tttctgaaac 240
 ggcagatccg atgacgagtc ctccgaaagt actaatacct gtgacccgcc tatcgacttc 300
 aagcacgaaa tgaatcacac ggaag 325

<210> 36589
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36589

gagtttctat ggaagatgga tcttggagct tcatttagtt ttcttggnga tnnttcatca 60
 tggagatgca gtggaaggca aaggacaaca ggagagggga ggcaccatcc actangaaat 120
 aagccaacga agaaagagct tcaccacca gaatngcctt ggataagaag ctngaagagg 180
 atgctctaata ggaggacaag aaagagagaa ggtgggagca cgatattgaa ggagtaacaa 240
 agggagagaa gtggaacttt gaagtgtatc tcataaaact ttcattcatc aaagttacaa 300
 caagtgttat acatgcttct atgtatagac taagtagctt ccttgagaac tctcttaaga 360

aaacttcttg aaaagctctt gagacacttc ttgagaacta gacttactac caccctctct 420
 atactaactc cc 432

<210> 36590
 <211> 264
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36590

naggtgtacg catttcgaat gaacacggtc aaacatgggc tgcactngtc tgtttagact 60
 gnacctgact gctgatatat cgagctgtca aagcctgcac gactaccga cttactgagc 120
 tgaccttgct gtattacaac tggctcacac ttactatctt tggcctcaat ttttattaat 180
 acatctcacc ttttatctac acatgtattc ttatgctact ttctgactaa tctctatacc 240
 ctggttatatt tcattcttaa ttcg 264

<210> 36591
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36591

gcacactcag ctctanacca tgcacttagt taccaagtgt ccagagattc gttttgtgca 60
 tgggttttttc aatctacagc aacagcattg tattttcagc ttaatcattt ccacagaacc 120
 aaacttgтта tctcaatagg aatagttcac aattaataca aagatggaaa acatttgaat 180
 tacaatggaa ggaacaagtt aactaanact aaaatatcac tatcatattn tagtatttcc 240
 caacaccacc tgcatttctc cacgtctaaa gtgaactaca attactaagt tgaaagttgc 300
 agttacatgc aaattatcca ccagaaagaa ggtaactgga tctagaatgc acgacactgt 360
 tgtaaagctt tcaagctgta ctgtgttagc ctgctgaagc agtttatctg tgt 413

<210> 36592
 <211> 226
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36592

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 caacgaccat caacattcaa tttcgagcgt gtcgatatat tacgcgactc aatcagacat 120
 cagagtaaaa agttattgtc gtttgaattt gcaacgacca tcaacattca atttcgagcg 180
 tctcgatata tgtcgcgact caatcagaca tccgagttaa aagtta 226

<210> 36593
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 36593
 cattagccca cctcggcgaa aaaaaaacat gattcaccgg tattgacaga aaaaaatgct 60
 ggccttattc ggccaggaaa gatgaccgat cgaggtctaa aaaagaagca tgaccggatt 120
 acgccgatcg aacgtttcct aatagatatc ctccaagtat tattcagggg tcgaatggaa 180
 aaaacaatag ccgacatcgg tagttaaata gccgtgactg a 221

<210> 36594
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36594
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 tcaatgaaca tattcagctg tatgggctca gagaatccat gagtaggaag ttttcgcagc 120
 aagctacaaa atctttctag ggctttactc anagatntat ctgggaactg gtgaaaggaa 180
 gagatgacag cctttccctc tgcagtcttg gactctgaga natatttctt cagaaacttt 240
 tccacaactt catccaagt cctcaagcta ttaccttga atgaatgtag ccacctcttg 300
 gcttctccag atagtgaaaa tgaaaataag ttgatcctaa caacatcttc tggca 355

<210> 36595
 <211> 313
 <212> DNA
 <213> Glycine max
 <400> 36595

actaactcac ctctgaagag aactagactt actaccaccc ctataatact aactcacccc 60
 tgacaaaaca tgaaatacaa aaaagcctac tacaagacta ctaaagccg aaaacaagct 120
 aaaccctata ctactaaatg gcaatacaag ccaacgaaga aaactatcta aattacaaag 180
 atagtgtgca attaccacagg actcaaatta ctaagctaga aacctaggct tcctgattta 240
 cccattattg agtttaccat gcctgcggaa gatgctcaa tttaactaca tcatacatct 300
 gatcatatat tat 313

<210> 36596
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36596

agcttcttat gcanagtata taaccaaaca acaatattgt cgtgtggaca cagaacaata 60
 agttgccaat gtgcctgaa gaacaaaaac attagtagtt acgcaattat aatgcanatn 120
 tttgaacatt gttcaacatc aatttcactt attgattcat ataagctcct aagtacactt 180
 ttcgttgtga ttccttgacc catgntngaa tgtaatgttg acattcttgg catctatcct 240
 ttgtgttgtg tatagactga ggttcaagga aaccatacag tgatccataa cctaattcttg 300
 tgttccaatc attcataana ctatttcana catttgacat aaattctgtt aatggatat 360
 tgtaacgaac attaattatc agttaataaa ttagcacta ctaaccaaata tac 413

<210> 36597
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36597

gcgtttttct ggacaatgcg atgaattcgc taagcgtgca tggtgcatta agcgagttca 60
 tcaatattgc ttgaatatat gcattntcag acgaactcgc taagcgcgcc tacgacgcta 120
 agcgagttca tcttttgtgg atgaacattc atctccctga tgagttgact gtggctaagc 180
 ggggctgatt cactaaggcc aggtaactta gtcaaatttt tggtgaacgc tgcgcgctaa 240
 gcccaaccta tctaggctaa gctcatttca ttgcggcagc cattgtgcta agcgagccta 300

gcttgctaag cccacatact tagtgaaatt tctaanattt at

342

<210> 36598
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36598

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agtacgtgag ctcagttgga ggtgggcaac aggggatggt gggtttatgc gcgcattgtg 120
gatgtggaaa gcttgttgtg caccatcgcc cgaccgccac ctagtacgac atgtgatggg 180
taccataa tcctacaagc ttgagatgag gaagtgttga agggtgaaac ttcctgcttt 240
tattgttgac cacagagtgg tacctggaga tatgtcgcgg gggtcaggag accttgtgga 300
cgtcatgtgg ggtgctattg cccaatacca agcttgacct atcccgaccc aacccgggca 360
tagtcagtca gtgagaacat gtgacgtacc taatc 395

<210> 36599
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36599

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tggtcccttt gttcctttcg caacttgagt tcaactattgc taccatag agtccgcga 120
aatttgttcc ggccatactc ttccttgcca gccctcttgg tctcttgttc aagggctctt 180
gcggaattg cattctcttc ccgtaacccg gcacactcct tccgaacgtg ttagcggcc 240
aacttgaact tctccttggc aagttttgcc tttcctaact cgcttttgag agcttggact 300
tcttcgtcct cttccggtgc ttcaaaactc tctttgctga cgacttttaa cttggcgagc 360
caatctaaac ctcgtatatg aac 383

<210> 36600
<211> 353
<212> DNA
<213> Glycine max

<400> 36600

gtgttggtca aataaatacc actcgaatgt tgcttccaaa tccaagaatc tgctccatgt 60
 tgttgaattg atatcatgcc tatttcctat aggaattctg cagccattga agcttcacta 120
 tcgaataggt ttctcctcca attgaaattc cattcccacc cttcctcctt gtggcttccc 180
 atgagtctga tagtctgttg ttgttgggta gaaacttgat acagcgtagg aaatttgtac 240
 attaaagttc tgtccccccc tatccatttg tcatcccaaa atctggatcat gtctccacaa 300
 tgcacctttc actctatatg atcctttatt tttattcact cctctatctg att 353

<210> 36601

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36601

gcattcccta tatgttctag aatncagtta gtagttttct taaagcatta cacactatat 60
 attgcgtaga acaaatatgc aatttgatcc aacgtgtata ccatcttgga tggtaaaagt 120
 aggtaccttc tggagggttg acaagcttcc gggtatgagg agcggccatt tccttcttca 180
 actgtgtcag tatgtcctcc atgggtgact ctctttgcca atttgcaaga agaccaaatt 240
 tctttgggtc aacctatttc attcaagtct ataaatcttg tcacaaagat aattagttat 300
 taagccaata aaatagacta aattgtctca taatcataca catgagaagt g 351

<210> 36602

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36602

nattcttgac tttttcaaaa taaatnngaa agactcagct cgaatnggat tctgattatt 60
 tttgcgtgac cattattaag tcaaactcaa aatataatac tatggcttca agtttaatcc 120
 aaactatatt tctaaatcaa gagtaaataa ctatgattga gttaaagtga tatgcactga 180
 gcaacaaacc cattggccat cacctcttaa acacgaatta ttctttggtt tgataacaaa 240
 ccaacctctc ccaatgtctt ctgtactcat tattccaacc atgtatttaa gacaaaaacc 300

aacaggcaaa aatatattaa attgaataaa aattaaaaag agaagtccaa aagcttttta 360
ccctgtccaa cattgcaa 378

<210> 36603
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36603

cttggcggac acgctcaaca aagtactttc gacacctact gtacgttgat ttgaccaatg 60
ctgttatggg aatgttgca caatccttca naaccttatt gatacattct gagagggttg 120
ttgtcatgtg gccatatcga catccttctc tatcataagc catcgcccat gtttcctttg 180
aaattcgatc aatcatgtgg ctatggctgg actcagttca cgaaattttt ctaaactctg 240
atcanaaatg tgctcgcaag gagtgtacac tgcataaaaa tagttatgaa taacaanttt 300
atgtatatat gaaacttaga taaacgtcac catcaaat 338

<210> 36604
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36604

anaaccgacg ccacccggag gcagggctca tgtacacaca cccccacctc tcccagacac 60
ggaggagctg aaggcatcgc acaccgggac gaagacatgg acnatagctc tggcataagc 120
atatatatat aactcacgct atgtggccag tacctaccaa cggatactat atatgcagct 180
gcagttggat aatgaaccgc acttacttac tttatctgaa gatctcattg gcattagggg 240
acaatgccgt gtgactgatt gcctaccctt gccgggtgcat tgtgctgaga tatcaccatc 300
tatatccatg attcattcat cagtgtata tgagctgtat aacgagccac tattgacata 360
aaattgaggt agcgtcgaac gagaggtata gtactccctt taten 405

<210> 36605
<211> 240
<212> DNA
<213> Glycine max

<400> 36605
 actaggatat atagtgacta ctcacaccaa tggatgtgcc atgatgacgc ccatctaata 60
 tatctaaata agcacctgac acaacctaac acccagacat ccagcccaat tattcaagtg 120
 cagatgttct gactaccaca cacaatcaga ccctcagaat gggagacttg gccaaatctt 180
 atttgtgaaa atatcgaacc tcttgctatc agagattgag ggactactca cacgctccat 240

<210> 36606
 <211> 281
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36606

aaaagcttna gcaaaatggg agaactgaac cagactttgg attttagaga acaacactta 60
 ttgtaggaga aataattgga acaatggaat tgctaggcct aatccttata ttcttagttt 120
 aagtgtgaca ccctctacct caatatacat atgtatataa tatggtaagc acataacaca 180
 ctgggtcgaag ggttcgactt gttatgatac cactaaatgt gacaccctct accccgatat 240
 acgtattcat ataataaat acgtgagaat atggaattac a 281

<210> 36607
 <211> 272
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36607

tcttgaggga actcctcttc tattgcagcc acctcctcct cggacaccat tccagcactg 60
 gtgaaacact ggctaatacg gccgggccat acctatcca cccgaaatct tgacgacacg 120
 ttcctcctcc ccggcatccc gggttcatac cctaatacat acttgatgg atttccttg 180
 atatcgacca tgtcggcatt cccgaggcag tccttgcta gaccattcc gggctcanat 240
 ccgttctga gcataacacg cgccaccatt at 272

<210> 36608
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36608

```

agaggcnnnn nttgagcttg ataatcctaa gttatcnna tngnagancn nggnnnnnnn 60
gnnntttttt tttnnnttnn nnnnnngggg nnnnnnnggg gggnnnnann nnnnnngcnn 120
nnnnnnnnnn nnnnnnnnnn nnggnngggn nngnnnnnnn nnnngnnngg gggnggggng 180
gnnggnnggg gggggggggg gggngggngn gggnnngggg ngnggggggg gggggggggg 240
gggggggggg gggggggggg nggggggggg gggngggggg gggggggggg ggggnngggg 300
ggnggnnggg gggggggggg nggggggggg gggggggggn gggggggggg ngggngngng 360
gggggggggg gggggggggg ggnggggggg gg                                     392

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<210> 36609
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36609

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tctgaggagg tgtctcagga ctgcgcggct tatcgctgta gttgtgcttt ccaaggttgt 60
gctttcggca tggttgatgt ttgagaggag ggaggatgag cttgagggtg tgtcttctat 120
ggattgtggt ggttgtgttc ttgaatgtcc gaagggtgaat ttggtgaagg gctctagtcc 180
ttgttcaatc aatgataggt gccagtgtcc acaagggact aaagaggaaa ctagcaatga 240
agaaagtgtg tttttgtgtt tgccagatga ggaacaaaag gatgtttctt tctgcattgc 300
gagtgaggaa attgattgtg ttaagtggag aattgctgcc ctttctgacc cttttaaggc 360
aatgctttat ggtggctntg ctgactccaa gatgaggaag attgatntca gcanaaatgg 420
tataagctca cagggtatga cggcagtgga gttgt                                     455

```

<210> 36610
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36610

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atctngagtt ttaattgctt tgntcttccc ataagcagta gtcagtagtg cactctcacc 60
catctccatt acaagccttt cttcttcttg aacacacatg gtcattaatt cattgataga 120

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ccatttatct ntatgtgtgt ttaggaaat cttaaattggc ccatattcat gcggaagggt 180
 gttcaaaatg aaatgcacta ngaaggactc agacatatca acctctagtt tcttaagttg 240
 agctgaaata tctcgcatth tcatgatgta ctcacgcaca cttttcacac tggtagagccg 300
 aagagaagaa aacttcatga tcaagggtgct tgctaaagtc ttatctgaag tgatgaactg 360
 gtcacatg gccttaagca agtctcggac cttttcatgc tgggtca 406

<210> 36611
 <211> 590
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36611

naagggaagg tacgcgangt tttaccatcg atgcncatcn gnnncactcg acnccccctc 60
 ngnncatnnn ccccnncnng ngntgatgcc nnatngnagc cccacnctgn anngcattgc 120
 anaggctttg attgttttat ggtncctttca cccgtatgaa nanggatncg gagggggggg 180
 tcttnaaaaa agagggaaga attaatcat tcttgctttg gacgaattga naaaacttgg 240
 ggccacattg aaagatgggt gaaggattga agggaaaacc cccgtgctgtg acttgcatte 300
 ctatacgacc aagtttccac caaccacaa tgctattact cagccaataa cgacccttct 360
 cattacctac caccagaca tccacaaagg ccatccctaa aatcaaccac aaagcctacc 420
 taccgcactt ncaatgacaa acaccacctt tagcataaac caaaacacca accaagaaat 480
 gaatnttgca gtgaanaagc ctatagaatt caccccaatt ccagtgtcct atgctaantc 540
 tgctccatat ctacttgata attcaatggt agccataacc ccagccacgg 590

<210> 36612
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36612

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 cacagatgat tatgctacca caganaaaga aatgttgga attgtctatg cacttgaaaa 120
 gtttaaactt tatttggtag gctcaagagt tatcatctac actgatcatg cagctattaa 180

atacttgctc aacaaggcta attccaaacc aagattgata agatggatnn ttttgttgca 240
 agaatttgat ttggtgattc gcgataaaaa gggatcagag aatgtttag ctgatcatct 300
 gtcaagatta gtgaatgagg aagttacagc anaagaagtt gaagtgagag atcaattccc 360
 tgatgaatca cntatttttaa taagtgaaag accctggt 398

<210> 36613
 <211> 691
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36613

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 ctningcgnag nancnagcga nnnnnnnana nnnngncnag nangcatgtc nancannnna 120
 ngttttataa ttctnccca tcacaangaa acnacnaagg ggggttgata agagacgaan 180
 agnggcacac acaacacacn cccaacanaa cacnaaaaca cannnncaaa cccacacacc 240
 acacggaagc acaaacaaan gacacgagcc acacgacacg acgacaacga aagcacaacc 300
 agaccgcnga agccagaaag acaacacaaa gnggcnccaa nacaaagcac aagcacaaaag 360
 cagcccaccc agacanngca acacnaaaac ncacaaacga ngccanagac gcacacanca 420
 aaaacgcaac cgagaacngc agcgccacaa cacagngagc aggagngcga ggacaaacaa 480
 cacacgcacc cgacaaaccc canagaaaga gaacatcacc aagcgcacac cagcaacaca 540
 gaacagcgac agccgacaaa acaacgacgc cacacgacgc acaancggac acccaaaacg 600
 gatacgaccc gacaacaanc acacacgcga agcgcacaaa caacaggacn agcgccaacn 660
 gaagaacaaa anangagccg cnananacac c 691

<210> 36614
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36614

ccctccaatg aactgacgca atgcgaacnc atagacacta catctatgat caagcaccat 60
 gactgggaca tatcgagtga gaagnnatat tatgttttaa cattatcgag agcttccatt 120

gctaaccgtg tatcgggctc tattattatg accctggaac gaaccattat gtcttatatt 180
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gaacataaac tgccatccag ggggagatat ggacataaat gatgatcact agaaagatat 480
tgaagtgtc tgattaag 498

<210> 36615
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36615

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ggggtagtgc caatttagaa aatccctcat tgaatttgct ataatagcca gccaacccca 120
agaaactttg aacttctgtt ggagttgtcg gttgttgcca ctcttaacc gactccactt 180
taattggatc cacagcaacc ccatctttag aaatcacgtg ccctaagaac tgcactttct 240
ctaaccaaaa ttcacatttc gacaatttgg cgaacaattt cctatccctc angatatgca 300
acacatttct caagtgettg tcatgtcct ncttattcct tgaatacact atgatatcat 360
caatgaacac 370

<210> 36616
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36616

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ttgtctgctc caccatgana ccaccagatg tccaggagga tcacatattt ctgaaggcct 180
ttccttattc tttagaggga gtggcaaaag actggctata ttaccttgct ccaagggtcca 240

tcacgagctt ggatgacctc aagagagtat tattagaaaa aattttccct acttccagga 300
ccacagccat cagaaaggat atttcatgca ttatgcaact aagtggagag agcctatatg 360
aatactgnga gaatatttaa aaactatg 388

<210> 36617
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36617

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gncacgaaat tgaagggata naagaggtat agaagtggaa ctttgaagta tgtctcacia 120
gactctcttt catcanagtt acaacaagtg ttacacatgc ttctatttat agactaggta 180
gcttccttga gaagctntct tgagaaagct tctttgagaa aacttccttg agaagctaga 240
gcttagctac acacaccctt ctcataacta agctcacctc cttgagaagc ttccttaaga 300
agattcctaa agaagctaga gcttagctac acatacctct ctaatagc 348

<210> 36618
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36618

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gtggactcgt aagaatgaga agttcttctg gaatgagaag tgtgatcaaa gtttccaaga 120
gttgaagagg cggttgacga cagctccagt gttaattttg cccgacccta agagaacatt 180
cgaagtgtat tgcgatgcaa gcgggcaagg cttgggggtgt gtggtgatgc aagaggggaag 240
agtagtggct tatgcttcgc gtcaattacg tctcatgaa tntaactatc cgactcatga 300
cttggaaacta gcagcgggtg tctttgcctt aaagatttgg aggcattatt tgtacggtac 360
ttcgtttgaa gtttcagtga tcacaagagt ctc 393

<210> 36619
<211> 269

<212> DNA
<213> Glycine max

<400> 36619

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taaattcaga cttgatgtat cgactcgtaa taccacgtcg cggcgacctg gaaaagagta 180
attttataag cttttataaaa cggactatgc gtttttgatc ttttacatga ttctaggata 240
gtaacatgct cagtgc aaat gtttagcgtt 269

<210> 36620
<211> 312
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36620

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tacatgtacc tttttcttca ttaccatgga ctctatgatt tctcattaga atatattctt 120
caacacccta attaaagctt gtgtacctga agaaattata gagattangg aaaagttaga 180
acaaaggact gaataattta atattaattg aaagtgcctg gctagccatt tcaattagag 240
gtgtttataa caaagcctat atttcactgg cttatgcaac ttatatggct tcactttgct 300
ttatgatata tg 312

<210> 36621
<211> 261
<212> DNA
<213> Glycine max

<400> 36621

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caactcctcc cttaaataatg atgctttcct cataattatt caccctaatt tcctatgctg 120
aaacactccc tatcaactgt agcctaaca gctaaatcta ctctagtccc tctctatacc 180
tatcagcaaa atacctatctt ttcaaatagc ttctaccag ccaataactag tgaaccagcc 240
tttctttgcc agttgatttt c 261

Publications

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ccatacttcc	cacgatttcc	ttgggttttt	atcaggctag	ttatgccgcc	gttgtctttg	180
cctaaacca	tcccgggttc	ataaccgttc	cccaacataa	ctcgggccat	cattaccgct	240
gcatcggaca	gacaagggtt	cccaaagagg	gagtccacgg	aggaaatgtt	gaccacctca	300
aaagactgga	nagcgggttc	taacgattct	tctgcggctt	ccacataaag	catggaggat	360
gggcagctta	ccaagatatc	ttcctcacct	gacacgatga	cctagtgcc	ctccactatg	420
aatttc						426

<400> 36623

<210>	36624
<211>	304
<212>	DNA
<213>	Glycine max

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tgatatttct gctctgagtg aagagagaca ctacagcttt ctggttttac atagaggcgc 120

ctctcttttt ctattatttt atttaagcta tgccacatgt ccctcattga gtggagcaca 180
 ctgggcccac tttctctttt gattgtgact catactcagc cccaagcagt gacaaaaacc 240
 tgaccttcga aacgcttaaa tcctgactcc gcttgctagc catttctctg gatctccgtc 300
 cttt 304

<210> 36625
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36625

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 acaaagtact ttcgacacct actgtacgtt gatttgacca atgctgttat gggaaatgttg 120
 caacaatcct tcaaaacctt attgatacat tttgagaggt tggttgtcat gtggccatat 180
 cgacgtcctt ctctatcata agccatcgtc catttttctt ttgaaatgcg atcaatccat 240
 gttgctgtgg ctggacttag ttgacgaaat ttttctaaat tttggtaaaa aaatgtgctt 300
 gcaaggagtg tatgctgcat aaaatgagtt atgaataaca attttaagta tatattaaat 360
 aaacgtgacc atcanatatg aaatc 385

<210> 36626
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36626

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 agagcatagt gtttttggan aatgtcgctg atgttcggaa tgatttgaac gagagattct 120
 ctcaaggaga ctttatcaga atttctgaac ttcaacaaga gatatatggc ctgaggcaag 180
 gttccttctc tgtcactgaa ttttattctg agttaaaaat actttgggaa gaactttaaa 240
 catatatgcg tattccatgt tgttcctgta ccattaaatg cacctgtgct gcaatgagaa 300
 atgccagaca ttntcatact cttaattatg ctataagaat tttgactggt tngaattgaca 360
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426

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<223>      unsure at all n locations
<400>      36627
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tcatcattaa	aggatctcat	tgaagctcac	agatccagcc	tccatagaag	ccccacaagc	180
aagcttccat	caacttctat	ccatttctct	ctattaatat	ttgttggaag	atattggaat	240
ctgatttcat	catcttcagt	ctaacaattc	atatactcta	atccgtctat	ctctgcaatc	300
taattgcaac	aagtctctgt	tgcaaatgta	atgggtctct	tgctggtttg	tgttgatatc	360
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<223>      unsure at all n locations
<400>      36628
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atcaccatta	aaggacccca	ttgaagctca	nagatccagc	ctccatagaa	gccccacaag	180
caagcttcca	tcaagtggta	atcagagcac	aagagcttca	agtaggtgct	ccttaaacct	240
ccattaattt	tttgctttac	cttctcttcc	attggtgntt	cttcattntt	tctccatgta	300
tctcctcaca	tgtcttgtgc	tanatgttnt	taacatgatt	ctttagagtt	tccaccgatt	360
aaacttgcta	tagaagctag	atntgatttt	ctatggttca	aatttcttgt	tcttgttctt	420
gaaccatgaa	ttatgttgag	ttt				443

<210>	36629
<211>	392

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36629

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 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag agtaggtagc 180
 ttccttgaga agctctctta agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
 gagaagctnt cttagataa cttccttgag aagcttcttt gagataactt ccttgagaag 300
 ctatagctta gctacacaca cccctctaata aactaagctc acctccttga gaagattcct 360
 aaataagtta gagcttagct acacacaccc tt 392

<210> 36630
 <211> 246
 <212> DNA
 <213> Glycine max

 <400> 36630

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 aagactcgtg atattcgaga gcatcaagac cagcatgaag acaagtataa gccgatttgc 120
 tgcagaactg atcgaatagc agaatttgtc cagctgaatt gctgaggag gagcctttta 180
 tgcgagtctt tactctctga gaatcaatta ccatgacgca gcattcgatt accagaagcc 240
 caaaac 246

<210> 36631
 <211> 411
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36631

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 tcanatagat tgattanacg tcanacggct ccattgctgt cactccanaa tggatcaagt 180
 actaaatcaa acagaacata cactctgagg gagttctcgg agagatttgc aaaagatagg 240

ataaggttgc atgaattatc acctttttca naaggacagt caatctgtgt tttccaaaaa 300
 gattaaatca naatcaaaat cacaaaatag ggaaagaatg tcatgaacat tgtacaactn 360
 tccattgcat tgcattgttt catatgaggt cagcgttacc aagtttcaca a 411

<210> 36632
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36632

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 cccagcacac tctttccgga cgtctgtagc gaccaacttg aatttttctt tggcaagtct 180
 cgcttttctt agtttgattt ttagagctcg gacttcttca tcctctttcg gagcatcgaa 240
 gttctcttcg ttgataatct ttaacttgga gagccaatct aaccctcgtg tatgaacttt 300
 cagccattca tgataaccac caatgatgcc attacgaatg ccccttagtt ctttaacttt 360
 ccttaacgag cnttcccacg ccttatggac tctatgtata atcttgaaac tttgcgcgcc 420
 gaaatctctc ac 432

<210> 36633
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 36633

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 cactttacaa agacactgtc ttttaatttt gacaagaatg ttcataaaat cactcctatg 120
 tggaggatca ctaattcaca cataatcact tagttatatg gtgtcttggt actatactac 180
 tatcgacttc tttatatatt tctttcaact aagaattaaa aaaaacctgc tttcctcaaa 240
 gctggctttg cattaaagga aaa 263

<210> 36634
 <211> 443
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36634

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ttgagtgcc tagtttgaaa cttctaactt taattaatcg agacattggt aagggtactt 120

agaaaaana ttaagtgtt caatcaagca gtattcagtt aagattggat cgatctgata 180

tagaaaggaa aggttaggaa tntgtctaag tatttgtgga aatttttgaa gaaaaattcg 240

attacgaaaa cgaagattat gtccaatgta gccatttttc ctcgattgca aaatgggtatt 300

atacctcatt attacctctc taatgcaatn nttntatatt cttgtcaatt gtcttcacat 360

tttaatttac tcgctttctt tttatatntc caacacattt attcttttct tttecgactta 420

tattccatgg cactttaaat tac 443

<210> 36635

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36635

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aaaaaaaccg tctttcataa aacacacaaa cagtaggcac taaaaccttc ccaaatgcta 180

agacaacaaa ggctacatta caaacaaggt ccagtctaga gcaacacatt cacttgaagc 240

aagttccaaa gtacctcatt agaacagaag cagcgataaa catgaccgga ttggtgtagg 300

ttctccgcat attgtttgta taaagaattc ctctcagact gcctataatg accataatcc 360

cctccaacac cangccctaa canattcatc acaaccaca aaaatacaca cttaaccata 420

aacaaaaat 429

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<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36636

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 tggaatccct tataagccta gtttgatgga tcatcagagt actaataacc aacaatctga 180
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 aggttttggg ggtgctgatg atcaaaggga atccaaggcc ttggatccat ttcattcttt 300
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 caataagaga aggttataac aagaccctag aaaaaaatgc atgcatcagc accttctca 420
 caaa 424

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 <211> 466
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 ttaaggtatt tctcagttga gattcaagaa ctacactatc aagatattga gattatgtaa 180
 gaagtttatt tctcagttta tagatgtttt tttcatacac atacaanaaa agaaacatca 240
 nagttaaaat tnttaatacc aatccttatg ggattntatc taattcaaaa naacctatga 300
 gaatcttgtc acaaataattt ttacaaatnn taatttacca atatatnttt aaatatatta 360
 tatattaatc tattaattgt attttaatga aatagtctga ttcaatcgac aaaccttttc 420
 aagttcagtt caattgaacc aacgggtctt cagttcagtt tcattc 466

<210> 36638
 <211> 304
 <212> DNA
 <213> Glycine max
 <400> 36638

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[illegible]

<211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 agtcccgaat ataacg 436

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 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 cttcaagttg actacataaa tagttgtcca tggatggtac atctgt 346

<210> 36643
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36643

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Appendix 1

<400> 36644

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<211>	414
<212>	DNA
<213>	Glycine max

15266

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 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 tntaaaagct ctatagttgg gcctaggctn tagagttttt ccttttggtt aagctntgtg 240
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 cattctcatt catttgcatt tntacttctt tatttctgaa acggcagatc cgatgacgag 360
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<210> 36652
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 <212> DNA
 <213> Glycine max

<400> 36652

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 aagttgacat ttgtatatga tgtcatataa taattgcaaa aatattatat ttgactaatt 240
 gttactgaac aattttggtt tggagggcaa atttgacatc cccgatgggtg gcaatgctga 300
 aaagaagggtg atgtcaatgg tcgctactcc atg 333

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 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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[illegible]

Abstract

Abstract

[illegible]

Abstract

[illegible]

Abstract

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 atttttataa gatctatatg acacattctc tatataattc ttaccgttta ttccatcttt 360
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 <213> Glycine max

<223> unsure at all n locations
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 gtcacatctc gaacatatga aaatctcaaa cgcccttatg tgtgcatgta aggacactca 180
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 aat 483

<210> 36667
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 36667

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 aaaaaatata ctaatagtta tgttatcctt gttgogtatg tcgatgacat gttgattgca 180
 ggatctatta tgatagaaat taatatgttg aatcagcagt tggcagaaaa ctttgaaatg 240
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327

<210> 36668
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36668

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tctagagccg cctgcacgtt tcnnngctttg tattggccta tcaaagagag agtccatagc 120
ggctcattat tcaataagac acctcctctg tacgtatctc attgataccg atttattgat 180
gatcgtgacg accacaacat ttcattcact agaatagtag gctagctgtg cagtaggtca 240
ccgcagtgtg attagatgac tcgtgtgctc tccatacatc ttactaggga agaccttggt 300
ttaccattct aatctgacag tgggtacagc ttgtaaaaac attatttgat tgtagatctt 360
acacatgcgg gtcttaacca taacctata cctatatgtc tccgtggatc agtgactctt 420
tccgttttgt atacaagata tgaaaatact atgataggct ttcttggtaa gcttttcttt 480
tttggcatat tgttttt 497

<210> 36669
<211> 372
<212> DNA
<213> Glycine max
<400> 36669

agcttgaaat cttaattgct tgttcttccc ataagcagtg gtcaacaatg cactctcacc 60
catctccatt acaagccttt cttctttctg aacacacatg gtcattaatt cattgataga 120
ccatttatct ctatgtgtgt tgtaagaaat cttaaattggc ccatattcat gcggaagggc 180
gttcaaaatg aaatgcacta cgaaggactc agacatatca acctctagtt tcttaaattg 240
agctgaaata tcttgacgtt tcatgatgta ctacgcaca cctttcacac tggtagagccg 300
aagagaagaa aacttcatga tcatagtgtc ggctaaagcc ttatctgacg tgatgaactg 360
atcatcaatg ac 372

<210> 36670

<211> 294
 <212> DNA
 <213> Glycine max

<400> 36670

agctctacta tatcactctg gcaaggcact ttccaacctg atctacagaa gatagaacct 60
 aaataagaag ccaagcaggc cttttggttag aaaaaaggta tgtacgggtt ctgggtctat 120
 tataacaaaa aagggggaga acggattttg ggatgtgtct atcccacaac ctgggtgaaat 180
 gtaagaccac ctacataacc taaacccaaa gagtgtgaagc gagggattaa aaacctagtt 240
 gatcacttat aaagtcaagt agaacatatt attctatttt gattcccaac atgc 294

<210> 36671
 <211> 251
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36671

ctcctctaata agaagagcga tatgcacttc ttgcattgta cattcgcttt atcgtgggga 60
 aactgcggca ttgtgttttt cacgttaaca agatgttttc ggttcaccat cgactttgtc 120
 atatcagcaa taattntctt ttcttcctta atcaatcgcc ccgcgtatgg atgtccaact 180
 aaggacttcg caaattcatg attatgaatc ccacagatca acttcaccat ccaaccttct 240
 cctccatgca c 251

<210> 36672
 <211> 575
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36672

gcactcgact cgtgacgctc atcgtgatct ataatactta tcacacactt aacntcnccc 60
 ncnnnnnnag gggnaagagt gagcttgatg actggcaaac aagccagacc cgggacctta 120
 gatcgactga ggcagcaagc gaaggttgtt ngatatagtag taacgagcga ggaagggcag 180
 gaagcatcaa ttattcacag agaggtcggg cctattgaac agctattagt acgtaggaaa 240
 tagccatttg ctagaggaga gtctccataa naagacncaa taataagaat aataaacgcg 300

taccaacaa gctctctcac gcgctgaaaa gccatcaatc tgtcacgaca aagaacaata 360
 taacaacatt ttgcaataga gaagaccagc ggaccgaaga gttaagaata ctgcgaaaa 420
 aaccaccgcg agaggtcggt aaaaaagtga tacttgctaa aaaaaaatga ggtggaagct 480
 caagcccctc ttgctgggaa acacacatat cgtatagaac aataccggaa acaacgacac 540
 tgaaagagaa gccgcgtatc gatatccagt gagan 575

<210> 36673
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36673

agcttcaaga ttcaatntct agcgtctcga tatgttacgg gactcaatca gacatccgag 60
 aaaaaagtta ttgtcatttg aatntgctca gaggttcaac attcaatttc gagcgtctcg 120
 atatgttacg ggactcaatc agacatccga gtaaaaagtt atggtcgttt gtattggctc 180
 acagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagacatccg 240
 agtaaaaagt tatggtcggt tgtattggct cagagctgca actttcaatt tcaagcgtct 300
 cgatatgtta cgggactcaa tcagacatcc gagaaaaaat tattgtcggt tgattggctc 360
 agagcttcac attcaatttc gtgcgtctcg atatgttacg ggactcaatc agacatccga 420
 gattaaaagt attgtcgttt gaactgctc 449

<210> 36674
 <211> 264
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36674

ggggacgtca ggtggggtgc tatntccac aaccaagctt gaccaatccc gacccaactc 60
 gggcatagtc agtcagtgag aacctgtgat gtacctaaac aggcaagctc ctggcagcaa 120
 cagataagag gaacaaagac cacacagcaa tgaagcttgt gtgggtggctg gccagctgtg 180
 aaacttgatt gatatatggg atgtggcctc ttgtcatcga ttaccacagg tgggtaatca 240
 ttacaaggct ttaaagtgaac acat 264

[illegible]

gtaaaaataa tgaatgcatg ctagagataa aatgtgggag tgatttgatt ctactga 358

<210> 36678
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36678

tgtttgtatt attatgngt acccatcaca tgtggcacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttnttcacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccacaaca tccgagcaaa acaacattca aacagcacia 240
 gctatcacag gcaagcaaaa cagagcacag gcagaaaact ttgccaaaac accaaccaaa 300
 tcacaacttt tctcacttaa agaccccagt aacaattcct tcgatccaat tcgttaacct 360
 gtggatcgac tccaatatgt tactggaagt ctatagtaca tgaacctac 409

<210> 36679
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36679

ttgcttatnt ttctagnnc gctcaataat catgttccta tctgtggaat tctgcatatc 60
 tctatgacaa gctgggtggt gaaagccttg cttgccactt gtgttcatgt gattaaattc 120
 tttggaacaa acacaatttt gaataaccat tgtgagcttg tcacttgatg acaagtgaac 180
 tgttctttct ttgcttgagg acaagcaaaa ctgtgaatat gggggagttg tcagtcgtca 240
 tttagcacta acttctgtat tgaaaagcag tatgaaattc gtcttttctc caatttatag 300
 ttctttatgt aagtttgtag atatttttag gtttagttta attttgctca gt 352

<210> 36680
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 36680

atcaaagctc actcgtgagt ggtatggatg aattgggtcta gcctttgtaa ttgcatattt 60
tctgtgaatt tagtcatgtg attttaaaat gagagtgacc tgagttgtgt ttatgacgtg 120
tcttaaatgg tgtaaggatga agtaaattgc agtccatttg aacagttagt taaatgagtg 180
agtcaaatga gcgacttgaa atgatattgg atttctagtc tgtcaaccac actggtcatt 240
tact 244

<210> 36681
<211> 344
<212> DNA
<213> Glycine max

<400> 36681

agctttattt catgaattaa gcagccatag atctgtatcg aaactagtat cccaaccact 60
aaaattctat aaaccaatcc ccccttgaat gtagaaccac accctgatgt tgctagacca 120
agagtggaaa ggaatgtcaa accttttttc catatgttta agccatgtct agcagaaaaa 180
tatcgcatca tccatcaatt tttgaccgtt gaagctcttg tttgagaaga ctatcctgtt 240
ccaatggtag catatacact agatcagaaa aaaatcacca agtttgccat cactatattc 300
tgataccatt gagatagaat ataagtgtcg aatgaagtgt ttcc 344

<210> 36682
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36682

tcaccccaac cggggtccat tccccccccc ccccggtgct gacccaacac anaganngag 60
gagaaaaggc gagatnngta tagaaaaagg aaggagaagg gaaagcgcaa aaggaagggg 120
aagaaaaaaa aaaaaaacga aggaaaaaaa aagaaaaggg gaaagagaaa aaaagggaca 180
gaggaaaaga gaaaaagaag aaggagaacc gaaaaaacgc ggaaaccgca cgaaaccgaa 240
cacaaccacc aaagagagcc gacaagagac aaacaaaaaa ccccaaacc gaccaac 297

<210> 36683
<211> 589
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36683

aatacccgga cgagactgac attgacatgc gagcacgacc acantgcact nacnnncccc 60
 cennnnennn nnnaagggat gagcatgatg ccttcgcann ccnacnnann ncnagnagan 120
 nccgagagan gacngcangc agcaagcgca ggggtgaccna ngatgcncan nggaagaaaa 180
 cacaaacggc accgaggaag agnggcgaag ccaccccccc cccacannag ccnangaaaa 240
 ggccagaggg gccgagggga agacgnncaa canccacccg caagaagccg ncacnaaaac 300
 cagggagaac aaagagaagg agaacaacaa ncaaggcaac gcacangngg aacgcgccac 360
 gacaaaaacg gaacagaaaa gagaccggcg ncancgaacg ggagacacaa cgggaagaga 420
 ncaaaccgaa ggaagaaagc aagcaaagac ccaaaggggc aanaccggcc angcaggcag 480
 caacaccagg aaccaaccac gagggacggg naccagccg aaagcaagnc cgaccgagcg 540
 ncgaagcgga acacacacaa ccaagggaaa acgaagcgca accgacccg 589

<210> 36684

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36684

agctgtcact atatgcttac ttgtgtggga gccttcgggc ctaatttgaa gcctgtttct 60
 tatcatgaga taagagtgcc acttcttacc aaggaattag agaatacaga aattctgttg 120
 aaagaccata aagagcaatg gggaagattn gcatgttcat ttatgtctga tgcatggaca 180
 gacagcaaac agagatgtat catttacttc ttgatgaatt gtccgtttcg attattccta 240
 ttctatacaa caattgatgc atcctattct gtgaaatctg gtgaatatat atctgagtcg 300
 ttggactcta ttgtggaaga gat 323

<210> 36685

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36685

agctataggc ttagtcctta ctgattacac agcacttacg atgaaattca tctacaatga 60
 ccaattgatt gagttagtgg gagatcgca ctcacttttt cagatgatat caccctccca 120
 gttacgcagg ttggtggaca caggtaacac cagtaccttc ttccacatta naatggaacc 180
 ttccttggag acgccaatga ctataacca cctaataccg gcagtcata aactcctttc 240
 caaacacgct ttcctcttcc aacctctttc aactctagcc ccactctgag ccacagatca 300
 cagcattacc ctcttctcta actcagcccc agtcaatgta aaaccttacc gttaccttca 360

<210> 36686
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 36686

agctagcggg ttgtactttc tacttaacac catcggttg ctatctcgcg ccgggggtatt 60
 gtgggctgcg aactgggtgt gcgattgtct aacagcatcg gatgcggtcg tcgtggcatc 120
 atcctctata gattttggac tttagcgtgg actccgtgat ataagccatt tgatctttta 180
 aggccgatag atcggctctc atctgctctt gcacgccttc ttcattatc atttatttgg 240
 atcgagtgc atacgggtgc ctttgtgctc tcttagttat ggtgaattcc ctaaagaaac 300
 aaacaacgat gagcatgcca ccgcaacatg aatatgagaa tgaatgatcg g 351

<210> 36687
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 36687

tagctttgat ctgtctggta agagaagcaa ttgtgaaaaa gctgtacagg ggattctcag 60
 tgctgtcaaa caaagtgtat tatttttgtc agcaaagata atatattata tattgaaata 120
 agtaccagag gtacttacta tacaaaaaga gtccatatag atggttccac agtcagacat 180
 taatattctg agggggaacc aagctatgga tacagaatgc atatgaattt acatgtatag 240
 agtcataac tatgcaatcc cctgctgata cataaaactg tgtggaaaat tacttgacca 300
 ttgattaaaa tgcactgtga aatccttctc aaacttcta 339

[illegible]

<210> 36691
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36691

cggagagctg aatcngannc ccnntnnccg gnccgggact ctagecgacgc agcagctctt 60
 gattctaatac gctcccatgg ctteggaggt gaaatgccac cttccctgga acanaanaaa 120
 agaatgaaat ttcctcttta ataacgataa gaaatttcca tcgagagagc aaaaaagaag 180
 aagaaatttc tatccagaaa aagagaaaga tttccatcta catgggaaag aaaagaaatt 240
 ccctcaagat gggaaataat tgataaattc aagaaaagct ctgtcaagaa catagaatgg 300
 ccaaggctctg gacgacattt gacatcagat cgtccattga caagaataaa gaaactacta 360
 aatggctgtc ttgttcacc aaaatgtgcc acan 394

<210> 36692
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36692

agcttatcta ttgcatcatg ctcttgaccg cactgttctg catcgctcat taatcccaca 60
 cagattattg acatccgcac tgatgtggtt attaatgcat gtgagtgaac aatgtgtaga 120
 tgtgcacatc atagacaaaa gcctatcgtg tgcacatga ctctcaactg tattattcta 180
 catcactcat cgagaccatg cagattattg gcattcgtat taatgtggtt gtcaatgcat 240
 gtgagtgtac aatgtgcact tatgcacatc acaacaana gtctgtctat tgcacatga 300
 ctctcaacca tactgttttg catcgctcac cgacccacg cgaattattg gcatccacat 360
 tgatgcagtt cttagtacat cagtgaacag tgtttacttg cacgcatcat aaacaaaagt 420
 atacttattg catcatgact c 441

<210> 36693
 <211> 351
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 36693

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 ataccactaa atccagattt ggccttccga ctctcaaaga ctactgttt tttccactca 120
 taacaccata ttctcacttt ctaaccctaa gttaactcta cccttcaccc ctagcagggt 180
 tccataagca atttcagcac accaacaatca aaagcatcat catanaaacc ctagaactga 240
 atgggtaagc ttaactcact caaacataac aagtttagca tgctttcgac aaatctcttc 300
 acagataact atcacacagc attatccaag caaaactgcc catcatatct c 351

<210> 36694
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36694

cgcacatcgg gcggaagccg ctaaccncc cccccccagg tactgtgact gcccccaaaa 60
 accgccagaa agaggaaaag aggttttttg caacacggaa gggggacaca accccaaaaa 120
 gccacaccgg aaaaccgagg acacggaaac aacacgaacc aggacgaaca aacgaaagaa 180
 gcccggaacc gaaggagaa agggggacag aacagaagga aaacaagaaa cggggagaag 240
 aacacgggaa accgaccccg cgaagacgaa agaggaaaaa cacgaagggc aacagacacc 300
 ggaaccc 307

<210> 36695
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36695

accaactcat tntaatgtgc anaaagagna gtcttcactn tagctcatag gtctcgacag 60
 aaccatacaa agtttcctaa cagatttcta attatgtggg ccattaagtc tatgatatgt 120
 cgcaatagcc gagaagcctt gaatctcttc tgaggcggag taagtgtccg ccataaacct 180
 tggccttggtg ctaacacagc aggagaaagt tcttgacttc ccattcaagg gtagagcaaa 240

ccgatctatc cacatgggtg cctcttgggtg taaagagtcc atcacccttc ctctagcctc 300
 tgtttctgcg tatacttgag catactcgtc cgcgatccta tgctcgtggg ctgggggtag 360
 acctaaactc tctttggact tggcgataaa gctaacatgt taggctccgc ctgcgataaa 420
 cgccgagaca agctcttttt tgacg 445

<210> 36696
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36696

cgcgtgagct ttgatccctc gataccccgc cnganccgga gatccctaga gtcacctgaa 60
 gcatgcaagc gcaagtttgt tttctatgct anccaccaaa gaagcgcgcc taggtggagt 120
 cacatcgttc acttgctgctc gatgtagata gatcaccact tgagcctact agattagcct 180
 gctgcgaata attaaactca ttgataaaga aaatgatgat tgtggctcga tgatagcgaa 240
 catgatgtgc catgctctaa cggcagatat tacttttact gcgaccttca gaactcgatg 300
 ggcttgcctc gtgtgattaa catagacatg atatttttaga gagatactag gacgtgtgga 360
 gcttaaacga tgatttcatt cccaattaga ttacagtagc acatatcttt tacactacat 420
 ctatgagtct tgcaatgcac gcttctanca agtagatagc agcatatact ggacatcatc 480
 cttgagatcg ttgaaggggc atgaccgtag aaaccagata ccg 523

<210> 36697
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36697

agctcgaagt ctacagtgtg ntaaaatctc atctttgggg acaataaaga ggttatcagt 60
 ctttcacaac atccgacatt gcattctgga gaaaaatata tagaaattaa acatcattgt 120
 ataagacatc atgttcaaaa tgggagagtg gacttgcagt tngtgccac tgattatcag 180
 cttnttgaca tctctacaaa acgattaact gaggaaggt tgantttgtt aagaagtcaa 240
 cttggaatga tctttattaa tgaattatct aatctctata tgtcatccat tgttgcaccc 300

aaggatatat cgtccactag acttaaacac acactcataa cattcaatan atggacaaca 360
tatcatgcat taaatTTTTT ttttataaaa t 391

<210> 36698
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36698

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aatacatcga aacgctcgaa attgagaaca gaagctctgt gcatattcaa acgacaatac 120
attttaactc ggatgtccga ttgagtcccg taatatatca agacactcga aattgagaat 180
aatagctctg aacaaattcg aacgacaata actttttact cggatgtccg agtgagtcca 240
gtaatatatc tagacactcg aaattgagaa tagaagagct gagcaaattc aaacgactat 300
aactttgtac tcggatgttc gatggagtcc cgagcgtctc gatatatattat g 351

<210> 36699
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36699

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catcctatga agctgagtat attgcagcct cagaagctgc atgccaagca gtgtggctag 120
atgccccgat gaagaaattg caactggana aatcatgtaa agtgaagttg ttggtagaca 180
ataaatcttc cattgattta gctaggcatc cgacttctca tggaagaagt aaacacatag 240
aaacaaagtt ccacttccta agaatgtcag caatgagaaa ctgaagattg acattgcaga 300
actgaaattc agcttgaaac atactcacta agactttgaa gctagaaatg tntagatggt 360
taagagattc cattggaatt 380

<210> 36700
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36700

tttcttatcc tctatnttcc tataaatagg gggagaagtg aagggaaaaa atgttcagct 60
ctcctggtaa ttcgagatca cttganatta gtgaaaaaaa ttgtttccgt gtagaaaatc 120
caagccaagg cgcttccgta acgtttccat ggggtgattct gcgaagattn tcaaccgttc 180
ttcgacgttc ttcattcggt cttcgtcgtt cttcggtctt caacctgtaa gttccccgaa 240
tcgaactttt caattcatte tatgtaccct tagtggctct catttgtttt cacgtgtttt 300
tattttcatt tcatttactt ttcgtacccc cttttgacgt gcttttagtca tttacttaag 360
tcattttctc ttctaataca naatacaata natttccacc gatcatttg 409

<210> 36701
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36701

tttcttgatg tgagatatcg tggaagagtc agtcttcccta ctggtgtttg ttgaccacag 60
agtggcacct gaagatatgt tgcggaggtc atgagacctt ggggatgtca ggtgggggtgc 120
tattgccc aa naccaagctt gaccaatccc gactcaaccc gcgcatagtc agttcttgag 180
aacctatgac gtaccta aac atgcgagctc ctgacagtct accaataata gaacaaagtc 240
catatagcaa ggaggcttgt gtggcggtg gccagctatg aatcttgagt ggtatct 297

<210> 36702
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36702

atcttgcttg tggngcttct atggaggctg gatctttgag cttcaatgag atcctttaat 60
ggtgattntt caccatggag atgcagcgga agacaaagga gaagaggtga gaggaggcgc 120
catccactan ggaataagcc atggaagaag gagcttcacc accaagataa gccttgata 180
agaagcttga aaggatgctt caatggagga aaagaaagag ggagagaaag agagaggggg 240

gagcacgaca ttgaaggaat aaaagaggga gagaagtga actttgatga atgagagtga 300
 tgcaagctcc attggagctt gtaagcctaa gatcttcttc atcaatggaa ttctttgctt 360
 cttggaagat aaat 374

<210> 36703
 <211> 67
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36703

tgcttaaaaa aatacccccc gccctgcact catgcagtag tgttgaatta ttaacattct 60
 gcgactn 67

<210> 36704
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36704

agcttgttct ttgattttcc taagttctgt aacaagctga gaacaataaa cttggccttc 60
 tcttaattnt ctttgggctt ggcgaccacg atcaacanag tactttcggc acctactata 120
 tgttgacttc accaacgttg ttattggaat gctgcgacaa tctttcaaca ccttattcac 180
 acattctgat aggttggttg tcatgtgacc atatcgtcgt ccagatgtat cgtaagccat 240
 gttccttttt tcttttgaaa tgcgatcaat ccatcttgct atggctggac tcagttgacg 300
 aaatttttct aagttttgat caaacacatg cttgcaatga gtgtacgctg catcaaattt 360
 ggtatcatc 369

<210> 36705
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36705

cgcaaccacc cgctgacgaa gacccgacgt gcctatctcc ccccccccc cccggagcgt 60
 aactgatgca tcatgcaccc canggaaaac ccaccgagag caagaggaaa agagggccat 120

tcagttccca caagcccga agagggcgggc agaacaaacc ccccccacaga agatacacct 180
 cgaaacccca acaaaaaacg gagacaagag gaaacggggg cgacgagcac ccaccacaaa 240
 ggggaagcta ccggccgaac ccacaaaaac gcgggcacga caaagaaagc aaccgaacca 300
 ggggcggaag gcgcaacaac acgagaaaac gccagaaaaa gcggcacaac acacagaagc 360
 agccagcccg gcccacgac caaaaaccaa aagaaaaccg cgcaccccca cgacaaacag 420
 ccgaacaagg acaa 434

<210> 36706
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 36706

agctttcttg ttctctttgt tctccatcta ccttgaagtg gtatgttggc catctgacca 60
 tcattttgtc taaagtcgag catcgtgttc gtcgactcg agcatcatca gaagtctgtg 120
 cttcttctcc ttgccacct cagtaggta tgtttggctt actcctgtat aatatattga 180
 ttgcattcat gtatcgaca cttagtgaac taaacatggc tagggtttct catatttaac 240
 tcgagcatca tgacaactgt gtgcttcttc tccttagtga 280

<210> 36707
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 36707

agcttgcaat ttatccaatc tatttatcat tcacacagca caggctatga caggctagca 60
 taacagagca aaggcagaga actctgccag aacaccaacc taaaatcaca gcttttacca 120
 ctcagagacc ccagtaacaa ttccttcttt ccaattcggt aaccgatgga tcaactccta 180
 atttttaactg gaagtctcta atacataagc ctacatattg accgttggga tctactaaca 240
 aacatcccga actcattctg cactgctctt tccacaacca gcaaatgcct attatttttc 300
 tgcactagtg gcaaatcctg ctgcacaatt tcacagcaga aatctgcaca gaaagcagat 360
 tctgatacca cactgtctct tctccaatct tgcccaatca aatcttacag ttccaaatca 420
 tgtttaatca 430

0050750750750750

<210> 36708
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36708

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ttggctatct tcctatgcag ctccgcttgt atgtgccttg cttcttttagc atttactcac 120
ctatttatct cttaagatc ttgctgctat tcatattttc gcatttcact ttctgactcg 180
cattttattc aactatgtcc attctgggtga acgtgagata tatcaattgt gaacgaactc 240
gacatcctga ggaagattta aagcatactc ttgatgagaa gagaaaatat atctcacata 300
tcagtctcga agttctaaag agtgaagata ggctcatgcg agctttcttg tttcttctct 360
gctttatata aaaagaggat gagtntacga aacttattcc ttctcttatg taagag 416

<210> 36709
<211> 263
<212> DNA
<213> Glycine max

<400> 36709

agctggaatc actctacacg acaaagttag tggcagatcg acttttcttg aaacaacgac 60
tctatgtttt caagatgaca gacgaaagaa tgttgtccga tcaaattgat gacattaaca 120
agattctcga tgatattgag aatcttgatg tagagatgga ggatgaagac aaagctctaa 180
tgttgctcca tggacttcca agtcgctatg agcagtttaa ggatgctata ttgtttggaa 240
tggattcaac cattaccctt gaa 263

<210> 36710
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36710

agcttgaatg tgcgtacccc accatttttt catagaaaaa cactggtaat gtgtctacta 60
ttactatgat catctctttc tccgtcatta aggggtgcat atgggctgcc aggtctctcc 120

acctttgggc atattctttg aaagattcat gccccctctt gcatatgctc tgtagttgca 180
 tcctatccgg agccatatca gaattgtacc gatactgcct aacgaaggca cccattaggt 240
 ccttccaaga atggactcan gaaggttcca agttagtata ccangtgaca actgccccag 300
 taagactttc ttgggagaaa tgtatcagca gtgtctcatc ttttgcgtat agcccccatc 360
 ttctgacaat acatcttttag atggttcttg gagcaagtag tccccttgta cttgtcaaat 420
 ttcagcacct tgaacttg 438

<210> 36711
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36711

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 agtgggtacct ggagatatgt cgcagggggtc aggagacctt ggggacgtca agtgggggtgc 120
 cattgcccac aaccaagctt gaccaatccc gacccaaccc gggcatagtc cgtcagtgag 180
 aacctgtgat gtacctaaac aggcgagctt ctggcagtc acaaataaaa ggaacaaaga 240
 ccacaaagca aggaggcttg tgggtggctgg ccagctgtga atcttgtgtg atatatgggt 300
 tatggcctct ggtaatccat taccaacggt gggtaatcga ttacaaagct tataaatgaa 360
 gacaggagac tangatgggtc tctggta 387

<210> 36712
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36712

ttcttgact attccttttt ctttcaatnc agaccctact gtcattgttt taaatattga 60
 tatttctatt acatatatgt gtcaaacaat ccaaaccctc actatgcac aagcacacaa 120
 aagtacgaaa atagtactg accctttcgc agccaagtca acaatgtagc accggttggt 180
 cacaacgaac ttgttcatta ccagcgtctt ccttgcaacg accattacca tacatgagca 240
 ctaaaccaag cttaaagtgt acccgcgaca tgtcttctac actacaccaa gcttaaccta 300

agaagtaagt aagtgaccaa cgtaccgtgg acaaagctct gatctt

346

<210> 36713
<211> 88
<212> DNA
<213> Glycine max

<400> 36713

aggatctgtc ctgttgctgg agaggtcata attgctctat tgcggctgat atagctgctg 60

aagtcgatga agtctattgt aaatgttt 88

<210> 36714
<211> 243
<212> DNA
<213> Glycine max

<400> 36714

gtgggctcca tgtctgcttt ccaaacggaa acctagcgcg cctgctgggt aaagaatcgt 60

caacgcagac accttgctg agccagaccc atagatataa ctatgggtgg ccaatgaaaa 120

taaactgcca atatttgatt tggtcttcta tgctcgggac aacgtcgtat aatggacgct 180

aactctttaa aaaaactccg cgctgcacta ttgggacgag ccaatctttc ttctggccaa 240

gag 243

<210> 36715
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 36715

agcttgata atggccagac atgatacatg tcaagggttg gtttggttca acggtaaaag 60

ggatgcccc cattatttcc atgacatana tgcaaaaatg atgatttga aactttatgc 120

aaaactggtc atgcatgcac ctatgcggac actcaagtgt caaatcttta tggatcatgt 180

atgctanggc tcaagattca tttctccat tttagtcaac ccaatatttc caaaatatgt 240

tcttttatca atttgatcat tcatccgagt ccatttcggg cgtccgggaa aattttcaca 300

gcattcaccc ttcagggtga cacattgttt ttanaaaact agttatgatc aacgatctct 360

ttcaaagaaa agtгнаagtc atctcttgtc aaaagcatgt c

401

<210> 36716
<211> 308
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36716

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ctgtacatag aaactgctga tatacaccaa tttgggttct aacagaacta ctttantaag 120
ttacaactat agaacaaatc tgtaacatac cacatactct tatccacaac aagtggagtc 180
accaacttta ttattgaatg cctccaagga agataatgca ccgttcatgg tggcgctata 240
atgattgtta gcatatccta ataatatata taaaccgtac taaatctgag gagtaaaaat 300
aactcttt 308

<210> 36717
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36717

agctntacat cagnatttat taatgaccca ctaacctaga attaatatag cttagtgcc 60
ttaacctagg gaatttaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaaccaa 120
agtcaccctc aacagccaac aagtcagcca ccatttggtc tcccaaaagg ctgatgccta 180
agttgccaat tgggccctta ttacaacttg aactaaacct aactaaagcc cttttagtgt 240
attaaccaa aacatatttt tggtcagcca actctacaag gattgggcca ttatttagac 300
aaactaaaca ctctattatt gagacaaagt ggtgtcattt attccttctc catttgggcc 360
atgatacaac tcacaacctt ggacttttct ccttgaaact gggcttgtat caaatatatg 420
gacacacttg tg 432

<210> 36718
<211> 307
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36718

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gcanaacaca ccanatgatt atgatgatgg atggctcana ttctcacana agtaaactca 120
tcattttctt tcaaattgag ctttcaaaac tatcatgaca tgtagaggag aatcaaagat 180
ntcaagtcac aaaatgtcaa aaacttttat tttcaaaaca attaccatt tcttgaacat 240
atcctataat tcaaagaaaa acatgcaaag tcgtacatgc acacagaatt gacctaaata 300
ttaaact 307

<210> 36719
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36719

agctncaggt cttctatatg gaactcatga nactaaanca gcatgatgag aatgacgaga 60
taaagacagg aatgacactt anagttttat cttcagttca acaagatagt gataaacaag 120
acttgaatga agtagaagag atgatgattt cagtttcttc gtaaagagat taaataaatt 180
cctaagagac aaagataatc atagaagatc acacttctaa ccaaagaaaa gaggagagga 240
ttcatctttt gttccaaagt gttatgaatg taaccaacca cgacatctga gagttgatta 300
cccgagtttc aagataagac tggacagatc tacgacgaaa ctttactga tatgacagca 360
atagagctta catcacttgg gaatataaca ctatggattc atccgaagac tcacaaaatg 420
acctcatgaa tctaagtctt atggcacaaa ata 453

<210> 36720
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36720

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gtctttcctt gtcattccaaa aagtcatgct attttttttt gagtgtatca actatacaaa 120
agttacacac aaagcaaacc tgtttttttag tgtggggcgt attaattattc ttctgaaatg 180

aggtcttgct taatattttt ttcattttta aatcctatag aaatcctcta atttatgtgc 240
 tttcgttatg ccgactacca tatttagttg taaaacatgt agcaaatatt tttagatagt 300
 tatgtgttca atataaaactt tgtgagtat 329

<210> 36721
 <211> 349
 <212> DNA
 <213> Glycine max
 <400> 36721

tcttatgagg gaggtttctc agttctaatt accaataaat tttctgaatg aactttttcc 60
 acttgctagt atacactggg gacactcttc attttatctt attccttttt caaatgcatg 120
 ttgacactct ctttctatgt gatggaagct actaagaact ttctaactgc catgttgaaa 180
 tattctctcc catcttggtg aaatcacttt tcttgcttta actatgacac cataacaaat 240
 ccatgtcctg cttctatcgt gtacgcggga attacatatg ctacactacc acactaattt 300
 atgaatcacc tgacacattc aagtgaatct cttctgtttg gacccttac 349

<210> 36722
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36722

tatctttctt ttcaatnnnc tataaatagg gggagaagtg aagtagatta gggttcatcc 60
 ccttaacgac ttctctcttt ctcgaaatag ctgaggaaaa tcggttccgt gaagaatata 120
 caagccgagg cgcttccgta acatttgctg gagtgatntc ccgaagggtt tcgaccgttc 180
 ttcgacgttc ttcatcggtt cttcatcatt cttcagtctt caatgggtaa gtacctcaca 240
 ctaagcttgt taattcattc tatgtacccg tgggtggcca catttggttt catgtatatt 300
 tattctcggt ttcatgtact ttttataccc ccttttgacg tgcttaagcc atttatttaa 360
 gtcatttctc gcctattcta aacataagat atattttcac cgatcatatg aattgtatca 420
 atccgt 426

<210> 36723

<211> 366
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36723

tatctnnggt tgttttatat atgaatacat aagattatag tgctgctact gtgtttccca 60
 tctatgtcac tggctataga agtcaaatta tacaatctta ttctactagc atcaaacatt 120
 atagatgggtg taaaataaga cagagaacat atcctcaaac gaagataata tattctgata 180
 gacagatgag accaattaga ttgtagaaac ttttcttggg tagtagaccc atgaaccatg 240
 ttcactatac aagtacattg tggcagtttc gacctaccaa atttgtcatc cctggggact 300
 tcaattggaa tatggttctc ccaaaatcta cttactaact ctaagatgta ctgatgacac 360
 ttacta 366

<210> 36724
 <211> 382
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36724

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 gtgcacaaca agttttccac atccacaatg cgcgcataaa cccatcattc tctgttgccc 120
 accttcaact gagctcacgt actcccatgt agcccatatc ctcgtttctc tcaacaccgg 180
 gtctccatta atcctcccaa gcttgcccaa catcaaagta atacaacatt caaacaacac 240
 aagctatcac aaccaagcaa aacagggcan aggcagaaaa ctctgtccaa aacaccaacc 300
 aaatcacatc tattctcact tatagacccc aataacaatc cttcgtcca cacgtagaga 360
 cgcgcttcac gactccggaa at 382

<210> 36725
 <211> 354
 <212> DNA
 <213> Glycine max

 <400> 36725

tatcttctat tacactctag acatcttctc aaagatccca gcggtcagat catggaagat 60

tgtcttttaa agtttcaaac caaatttcga gaagatccaa cggttaacga aggttgggca 120
 gcgcttttac cgaggcagct tcatgtagtt ctctctagaa gcttcattaa gaggttctct 180
 ccaaaagctt cattaagagg cttctagcac actccagaca tcttctcaac gatcccaacg 240
 gttagatcat ggaaaaatgt cttgtatagt tgcagaccaa atttctagaa gatccaacgg 300
 ttaacgaatg ctacgcagca tttttaccga cgcagtttca tgtagctttc tcta 354

<210> 36726
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36726

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 ctggaggaat attctggaag gcccaagagg ggcctatctg ttatttgac cctcattttt 120
 actaaatata ccccttgatc tttnttggtg attntttttc cgtaacgtta ctaaacttta 180
 cgaatttcat aacgatgctt gttcgctttc cgtaatgtta tgaaacctta cggattacgt 240
 aatcatcctt tttttgcctt ccggaacgct acanaacttt acggattacg cattaacact 300
 ttcttttaat tttcggcatg tcacagaact tcacggattg tgctacaatg ctttcttt 358

<210> 36727
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36727

agcttgcata tcanagattt gttggaggaa tcaaattctg gaggtgctg catgtacact 60
 tcttcttgta gaatgccatg gagaaagaca ttgttcacat ccagctgctg tatgggcccag 120
 tgataggtga cagccaaagt gagaagaagt ctaacagtaa taggcttaat aactggtgaa 180
 taagtctctt gaaatctgtg tcatattgct tgagggcaaa gttgattgag gcttgtgatt 240
 anatgaagag gaagagggaa agaggtcata cggaaatctg gactcattga acaccacatc 300
 cttagatatg tagattctgc cttagaagaa agacattagt agcctttgtg cgtangagaa 360
 tatcccagaa aatgcattct tgagactgaa ttngagttta ttct 404

<210> 36728
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36728

agcttctctc tatatccctg atgtaagact atgcctagac taaatagcat tattgtaata 60
 ctataattaa gaccaaaact taacttgcac atctgtcatg taaggctaag tntcaatcaa 120
 gttctaaggc aatagtgcac ttcccaatgc taaagtcacc taactgtgca cacaatggg 180
 tgatcagaat aaaagcatac aaacattaat cattgaagga agcattgaac acagaanaca 240
 taatcaatta gatattaggt atttacatca gctgttcatt acaaattccc aact 294

<210> 36729
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36729

gccacccaca acaaagacac taaatccccc cccgcaggt actgtccctg caccnnnnaa 60
 cgagggaaaa aggaaaaaaa ccttttaca aggaacacg gggaagaccc caccacaaag 120
 gaaggaaaaa agaaacacg gggcacacaa acaaccaaga aacaaaaaac cgcaaaagaa 180
 aaaagacaaa agaccacacg caaaaagcac gcacaacaaa cgcgacagcc ggaacgcaag 240
 aaaacacaaa agaccacgga aaaaacagcc acagaaacca aaactcagac aacgcgacag 300
 aacgaaaccg aaaacg 316

<210> 36730
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36730

agcgtgaaca ttgaatctag anancnagca antcccgga tcttcaagac gcctgaagct 60
 gcagcgtatg ttaccattt aactaaggcg tcttaagcga aatgattgat aagcttcgcc 120
 agtatcccca tgaaaaacct tattcaacaa ttcaagttag tgaaaagcta acgaaaatta 180

gggacttata aaactaattc cttaattgaa agcgtacgtg acaatcatag tgaattacta 240
 aacaagattg gtagttactt aagtcatacc agatactccc gagccttcga caatcttcca 300
 aaatggaaca agaagcacct caaattatTT atgttatgaa tgaagatagt gacccaaaact 360
 ttgatacaca actgagatat gatcagtgtc acaaaagaat ataaatccaa taattccatc 420
 actggaaaca cctgtaattt tatataacgc cgctgccctg cctttataga aaaaagg 477

<210> 36731
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 36731

agctagaata tatggtgtct ttcacatgcg gactaagtgc cagtcaggcg atggtgcaca 60
 acaatttttc cacatccaca agtcgcgcat aaatccacca tccgctgttg cctacctcca 120
 actgagctca cgtactccca tgtagcccat atcctcgttg ctctcaacac cgggtcctca 180
 tcaatcctgc caagctatcc caacatccag gcatttcagc attcagacag caccaaactac 240
 cacagccatg actacatggc aaaggcagag aactctactc ggaacaccaa ccaatatcac 300
 acgttggttct ctcttaaaga cccaataaca tttctttgac caactcatca ccggagat 358

<210> 36732
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 36732

acatctttat attcctgcca taagaggtga acactaggag aaccataaat agtgaactga 60
 ctataatcat cactctctct cttttgagga tcaactctttt gctcgggagt atcactcttc 120
 tgtttcatat tcctttgagg agcctcacta ttgactttct ctaaggctct cttttctctc 180
 attctgat 188

<210> 36733
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 36733

tggattgtaa tgaaatgatc ggaaaagtat tcaagatact tgaaatgcaa aaaaaagcct 60
 tgcttatata agctcttcat gtctgggtcaa gatgaccatt tagaagagtt ataactttta 120
 gaaaaactta aaaccaattht gaaaaagtca aaaaccttht gaagagttac atctthttgat 180
 ttattcagaa acagtcactg gtaatcgatt accaaattag tgtaatcgat tacacaaggc 240
 tgttaagtga aaggatgtga ctctacacat ttgaatttga atttcaacgt tcaaagtcac 300
 tggtaatcga ttaccaaacc attgtaatcg atacagattt ttaagataat agcagcgtat 360
 atattcagtt gaaacatttht caactcatt 389

<210> 36734
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36734

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 gtggtacctg gagatatgtc gcggagggtca tgagaccttg nggacgtcag gtggtgtgct 120
 attgcccana accaagcttg accaatcccg acccaaccg ggcatagtcg gtcagtgaga 180
 acctgtgatg tatctaagca ggcgagctcc tggcaggtcaa cagataaaag ganaacaaga 240
 ccacanagca tggaggcttg tgggtggctgg ccagctgtga atthttgtgta atatgtgaga 300
 tatggcctct ggtaatcgat taccaagggt gggtaattcg ata 343

<210> 36735
 <211> 277
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36735

tgctntanat cacagcaaca cagaatctaa gtgtccaaca cccctccttht caatgaggtt 60
 tctaggttht gaaagtgaat tttagaatga tgtanatttg aagcaaactc tcacctcaca 120
 ccagtccata acatctattht agacttgtht anactgggat tacacctaan atctccccga 180
 atcanaattht aactcttcaa cacccaaatt gccctagaaa tggctctnnt gtcactthtg 240
 tcatttgtht tctctctgca cagttcaagc ttctcat 277

<210> 36736
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36736

tatcttgcat tatttacatt ctcnccatt ctgaaccaa gtattcttga catcatcaac 60
 atcttcatga tttacaaatg ttaaaaccaa aagaaaaaca taaatttgca aactcaaaat 120
 ataagtttta cattactaac gcgaatagaa ttttcaatgt attattaaag gataaaaaaa 180
 ttacacttag tgataatcat acaattcatc catctgcgca atgaacaaga aagagatatt 240
 acaaatttca ctatgtcttt agacattgga ctaataattg tttacgttgt agagatatga 300
 ta 302

<210> 36737
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36737

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 gttgtttcgc aagttnttga cataatcttg gctcctgggt ggtgggttgg tgagttgggtg 120
 agttgctaag ttcgtgagtt cctgagttgg tgtgttctca agctggtgag tntgttgttt 180
 aaaactgttg gttctgttta ctgcaatgat tgttattggg gcaccatttt cttgtgtgct 240
 gactgtcatt gntttgttt agggataaag acaacaagac gtagtttgca ttggatatatt 300
 gctttgaaca atggttttga taaccctaaa cactaaccta agactttggt gcttactcct 360
 gtgcacat 368

<210> 36738
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36738

agcttatctc atatgcatga agatctcact tttttcataa gaggtgtggc tctatcccat 60
 ctaggaggac atgtttatac ttgattcata cgtaaagtta agttcttttc ttaaacttga 120
 tgaaatgtgg agagcatttc acatagatct ccaactacac gacatgaaag cgaggacatc 180
 aattcaccgc tatcaagtat gcagccaatg aacanagtca tatgcactaa accgagatta 240
 tcaaaagata ggtaacctat acgtatgaat tatgtataaa aaatgactct tcctaaacta 300
 tacaacaga caattcagga ttcaatacaa tggattatct gaactatcct tattactca 359

<210> 36739
 <211> 139
 <212> DNA
 <213> Glycine max

<400> 36739

agcttattat catcaaactt ggagaaagag ttcttggggg caagacatga gaagcaatca 60
 agtataatgt taccttcttc actaaagcgg tgatccatct ccacacatat tttatcaata 120
 gcaacataaa aaatctctg 139

<210> 36740
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36740

tgtttgcaag cttcaatddd canattcgag cgtcgcgtta tattatagga ctcagtcaga 60
 catccgagac gacagttatt gacagttgaa tttgctcaga gcttcaacat tcaatttcga 120
 gcgtgtcgct atattacggg actatatcag acatccgagt taaaagttat tgtcgtttga 180
 atgtgctcag agcttcaaca ttcaattdcg agcgtgtcga tatattacag gactcactca 240
 gacatccgag taatatgtgt ttgtcgtttg aatttgctca 280

<210> 36741
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36741

cgaaagcgcc aaccgagaga aggtcctaca cccccccg cgaggtgctg tccctgccc 60
 nanancgccc gaaaagggga aaatgagttt atccaaccga aaggggggaa aaaccccaaa 120
 cccagacaaa agaaacacag aaacgacaag ggaaaaccaa aaaaaaggga ccggagggga 180
 aaaaagaacg gacggaaagc aacacacaaa aagggacgga aaaaaaccgc caaacaaaaa 240
 cggaaaaaag acaggagaac aaacggcagg aggaaggaag aaagaaggac acaaagagga 300
 acaa 304

<210> 36742
 <211> 257
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36742

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 ttaccccgtg acctcactta atcaatgtta naatgaaatt caatcgatcg tttatgttgt 120
 aatctcgttt aatcaccagt aaaataaaat tcaactgacg gttatgttgt aacctcagtt 180
 aatcatcaaa aaggtgaagt tcaacgggtc atttgctttt gaagttcgct ttaaatgagt 240
 tgataataac caagtga 257

<210> 36743
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36743

agctaggatg ttgatntctg ttacaggaag gaccagtagt ggatcgcatc caaatgactg 60
 gatcgaaagc attgaggacc ctgctttgcy tctgagtggt gcgttggttg cgaaagagtt 120
 gcgcagcatc aaagctagga tcattcggca agagaaaacc agctctgcac cgatctattt 180
 gggtagagga ataatccaag agcagagtgc ctcaacaaa ataaatctga acgagatcga 240
 cctctacgct ctcaaagccg caattgatcc agctgtactt ggcccatcgt gattntcaat 300
 cgtaata 308

<210> 36744

<211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36744

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 agagtgtaag ctctatcccg aagaatgcat ggtcattggc tgccatgttt tcaattanct 120
 ccataacttc attaagcatt ntttaattcca gagacatcta gaagttactt caagtttaggt 180
 cgtaagccat tgataaagat atntagttgt attggctcac tgaatccatg cgttggagtt 240
 cagcgatgta aaccacgaaa gcaatctaaa gcttcactaa gtgattcatc tggaaactga 300
 tgagatgaag aaatctcagc cttgtcttat gccgtcttgg attttggaag gtatttctgc 360
 aagaatntct ccaaaacctc ttcccatttc ttaggctatt tcccttgaca agtgaaccat 420
 ctttaacttc ct 432

<210> 36745
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36745

tggcactgtg ctctagaatg acgccctaga annccncgnc aattgagctc ggacccgnga 60
 tctctgagt cgctgcttt atgcancttg catctgatgn gngacatcnt gnacttctga 120
 gttatatttc attaactgcg cattatgtng atgcgaactg gaaggtgaat ggtaaaatgg 180
 gtaatctttc tcatttttcc tctccacact cggggcgtag gatggctaaa gtatatatgg 240
 ttttttcgga agatgggtgga tagacaaaca tattctcata attttgatga tgctcttcac 300
 tggttaaagca gacttttgag gaagactttc tactatgggt ataaagggcg ggaattttta 360
 tattgatgtg tctacattta aacttaggtc atgagggtag agtatcgcc tgtggaaaaa 420
 aataggaagc ctagttgtta ggatcaaggg aagaagtttt aactgttg 468

<210> 36746
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36746

tttcttggtt tgtatctggg ccggatccct gaacgtagat taatgagtta agcttggtgaa 60
catgtctcta ctancgcctt aattaattta ttatcggtga ttgtacgtaa cgtggttgatt 120
aatttattaa cgttttatat aaanttcatt agtgagataa tnggtacttt tttataccaa 180
catggtgcan atggatattn tccanatatn taecttagctt tcaataagct taattttcttc 240
tcttagaact gtgattgata gtacgtgaag tctatctttc ttttttctcc tttgtgtaca 300
agagcgagaa tgtttggtaa ttagatacct gaacgtggat taatgagtta atcttggtgca 360
ttt 363

<210> 36747
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36747

ttctntatth taactcatca acattacatt ttacagatgg tgtaggaaga ggggtccaac 60
aaatagccat ctctttcctt ctaggagtga gtgaagacat angactagca gttatctcct 120
tacaaatcac cttggccata tttaatatca ttatttggtta aaattttatg taattttcttc 180
aatacaatcg tagaatgaaa ctctatatth atgacaatcc tcaacttatt gacaccatca 240
tttccacttc tcanatttac accatgtgtg gtggttaagta agaaatanggt ttgaaaagat 300
agagggaagg tgaanatgag taaaagatac acccatgtta taccctcccc cc 352

<210> 36748
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36748

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cgtctgcggc gacgcgagcg cgtgcgtact tctctttgcg tcgcgggaag agaagagggg 120
gactaggtht atttggtgaga ctccaagctc cattccgata aattgcctgg tcattggctg 180
ccatgtagtc aagtaacctc ataacatcac caagcacttt taatggcaga aacatctata 240

<223> unsure at all n locations
<400> 36751

agcttatgtt atgctatcta taagactatt acaaaactca ttgcctctag attgaagcag 60
gttatggaca agctagtgtc tcccgcatta gatgagcttt attctatggt gctagggcag 120
agacaacatt attctagctc aggagatctg cactctatg ctaactcaac atgaaagcaa 180
gggtacatgg cgtggaaagt ggatatcata agctacaaga tatttgtaa taagagtta 240
tgctggacac ttttatgcga ttgatcgtca accattcaat cattancctc atattccatt 300
gtttgtctat agcctctttc tatgtatggg caatggagat aaaac 345

<210> 36752
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36752

gcattctaca gngactntag acgtactaga tgattaaggt tattgctga gggatatat 60
ataaactgtt cattaattga gaactcctat aaagtgagat gttntcctt ctttctccc 120
tttattatct ttntgttgag aaagtaatgt gaatgtgaat atgctttgct gaggttagtt 180
ttggcctttt tggaccacgt caccgtcaca agaattaagt aatactgana acatgaattg 240
gtcttgcaa ctttaatatg ttagctgcac attataaaat attgaagact tgaatgtact 300
gaaacatgaa tnggcttttc cactttaatt gttactggac attaacatga cttgcttttt 360
acatggattg caactttc 378

<210> 36753
<211> 514
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36753

naatactaaa ctangcattc nannncgtan gtttgngaag tcgaggacna angnnnnngt 60
tataatgagg agacgnnaac actcnatntt ctagcnncgn nacaaccaac canctagtat 120
tgttgttagt aaaccataac ggccaccac accacgcacc catatgagaa aggatgggaa 180
ttaaggcact cactatatag tgggataaac gggctctgga tcttggggaa aatttttctt 240

ggccgtcccc aggetgctgt ggtgcctcac cctatgcctg cctaggggcg cagtacttct 300
cgatgaaagc ccagataatg atgggctgat ga 332

<210> 36756
<211> 308
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36756

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ttctaaagct ctcatggtaa aaagtgagtt gtgaatcaca tgtgagatca agagacttat 120
tcaactcaagc aaacattttt tgcgtgtgac tgataaggtc tttatctctc tttgactcaa 180
gtttttgtgg gttttcatgt tgtagcatat acatgaattt ctaaagcatg ctatgataag 240
ttttctagtt tgcccaaggg aaggttctct taacttttaa agttcttagg gtgggacctt 300
atctcttt 308

<210> 36757
<211> 530
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36757

nggtggatga gngcttgcac ttgcncannc ttgntatngn tcnngcncca ngngnaanag 60
gctcaatgga ggtggcacac atccatattc aactcgccca aacaaataag gagtcttctc 120
tactcaaaga tagctcccta cncctctocta caatcaatat agaacctata tcctaattgtc 180
acatcctatc agagcgtggt gttcccgctg cctctagcat gagattctat atagtcaccc 240
acattatcat ctgctcccc cgacacaagt tcaagatcat cacaggatct caacacaaca 300
acacacaagg aagtgagtat cacattccta gcttatacag aaccagacca ttaattattct 360
tattatataa atgagatacc ccttgcttaa acatagctca cggaaccttc ccacctcgtc 420
gttcaaaatt accttttaca tcatcatgca cattacacaa aaatcccccc cttcaatcag 480
gatattttta cccattcatt ggcaagcgta tgcgtaaatt gtgcctagcg 530

<210> 36758
 <211> 265
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36758

accattattg caccaccac atcccatttt atagagagaa ttcttcttct tcttcttctt 60
 cttcttattc atgagattga ttaatggatc gagggctctct taagttgtta cgaattctga 120
 acacacagga agggttgtgc ctatgttggt caaactttgt aaaatgcac ttacaacata 180
 gtgaaaatct caaacgggtt gttggngatt atacttccca caaggcatga ccgaactagt 240
 ataaaaccga gttcgcttct ctctt 265

<210> 36759
 <211> 182
 <212> DNA
 <213> Glycine max

 <400> 36759

tatcatacac cagccgtggt ggattttgtg gtaagcgtaa aacctgcact gagatggcgt 60
 ttttaccagc aggatatcat gctgcgatca tactcaccat gatgatcgtg atcatcaacc 120
 tccaccatcc cgtacctaaa ttttaccagc gtgtgcacct taccaatata ctgcgacact 180
 ct 182

<210> 36760
 <211> 282
 <212> DNA
 <213> Glycine max

 <400> 36760

tattccgagg ccacttgatc cggcgggtgg tatcaaagca ggtatctcgt acaaagtctt 60
 acaactacaa gattcatggc ctcttaaata tttctgtttc tggaaggaaa ttccatccat 120
 aggccacca tatttaatgg tgagggttac cactattgga aaatccgaat acaaatcttt 180
 attgaagcca tagaatttaa catttgggaa gcaatagaaa tatgacctta catactcacc 240
 atagtagatg taagcactta cccacagca caaaaaccta ta 282

<210> 36761

[illegible]

taccattgga	atttctcgag	agcgggcat	gtgctatata	tagcgcctcg	atatattata	60
cacctgaatc	agacttgccg	gtgacatgac	atgaccatat	tagtttatcg	cgagcttatg	120
atcttcaatc	aacgcatttc	gaatataatg	tggctgaat			159

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<223>      unsure at all n locations
<400>      36762
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nggtggctga	aaccttgaca	tncnancnnc	ttagnnnata	gtcagncgcc	cnaagnnana	60
ngaaccgacg	atacgaagag	cgttatttga	ttctccacca	tgcctacaac	agtgaggtgt	120
gtagtgagta	taatagcatc	agccactaca	caatgcgtct	agatctattt	gcntgagatg	180
cagatggatg	agcctctgat	ctcaagacag	gatactttcg	aggaaggact	gatgatgaca	240
tgaccaccgc	caagaccgat	aaggccaaca	gctcatgacc	tatgttacta	accaaccac	300
gcattggtac	acacgttggt	tttttttctt	tgaatgatat	aaggaagccc	atcgcaaaat	360
aagctctttg	caaagcaaac	aaaatactgt	gttgcaaagc	caatctattg	gaggcaatta	420
ttcagttaaa	aaacaatttc	ctcgatatgc	ccaaacgtca	aagcaatgct	tcgaat	476

<400> 36763

tgagtcccggt aatatatcga gacgcgtgga atgtatatcc gcaactctga gacaattgaa 60
ttgacgataa ctttatacac ggatgtgcgg ctgagtcact gtaatatatc gagac 115

15313

<223> unsure at all n locations
 <400> 36764

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 ataactttac cgcttttgca tgaactacgt aggtctgggt tcttgatcgc aattgaggat 120
 acataggagc aaaagctccg cttttgtcga ccaccccaag agatcgtaa tggtaaacg 180
 ccttaacgtt tctctccttc caaaaaccaa gagatcgtaa atggccaac gccttaacgt 240
 ttctctcctt tcaaaaaccaa gagatcgtaa atggccaac gccttaacat ttctctcctt 300
 ttccaaaatc aaaaga 316

<210> 36765
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 36765

ttaccaatgc cactccttca tatgattata tttttgtact gtttaagtag agttctcaat 60
 acataatgtg atccatgggc cagccattaa ggatcatttg acaggagcat gtaacagaac 120
 agcctgtata aacaaaacat gatTTTTTaaG ctacttttga atggattctc actgttatgc 180
 acattctgaa gctacttttg atccatcaga aatatcgcat tttctctata cgcattgcaat 240
 ggatcatg 247

<210> 36766
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36766

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 aggtgtatTT gttacttaca tcacacacat ctcttgggt aaactcacat acatgcatac 120
 tcaagcattg tggggcacca aaaattgcac atgtgcacat cttggcattt ctaataccta 180
 catacgcaaa cttcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 240
 tctnttttca agtttttgct atctaaagcc gcatgcaatt caaacatnat ttcttttgct 300
 gactanaatt gattccaaat taaaaggata atttttgtaa tatggtttct tcacataaca 360

tgcaacatat ntatatatat ttttttgtga aacattttga ctacccaaat atatatacat 420

aca 423

<210> 36767
<211> 246
<212> DNA
<213> Glycine max

<400> 36767

atctacacaa ggtctgagag accatacatg attactaacg atttctaatt atgtgggcca 60

ttaagtctat catatgctga caatagccga gaagcccatg aatctcttcg ggggtggagt 120

agggtgtctgc catcgcttg gcctaggcta acaagcgggtg aagatcttga ctcccgttct 180

aggtaaagc gaaccgatcc atccacatgg ctgccttttg gtgtaaagag tcgatcaccc 240

ttcctc 246

<210> 36768
<211> 209
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 36768

gccccactct atcataggat agntcctgac atctcaaaca aacaaatggg gtgttcaaga 60

caattatagt cactgtttga atacctcacc cactcaagtg tatcacacaa ttatggcttt 120

tctctaataa aacactctaa ttcccccttga gttcttaagc aattcaagag attatggcca 180

caacaaagaa caatacacca atatgtgta 209

<210> 36769
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 36769

tgccccgagtc attcatccct atgaagtgtt gttgttgtat tggcgatcga aattgccatt 60

ccctgtgtta tggagttgaa ccaagctcat gctttttcga aaaaagttca tcaaatcaag 120

ttgaagaatg gaagtaacta tcttgcaaaa attggggcaa aagatgaatc gagtcacatc 180

actgcttcgt ctactgccaa acatatttag gattgttgat gttcttggtta cttccagttt 240
caccttgaca aagatgtcat agaccatgtg gaanatctaa attgattcaa ccccatatcc 300
tgcacaatac ttcaactgta catcattcgc atacatccat gcttttcatt ggggtgcattg 360
ctcattgatt ctttctttga aaagaaaaat aaataattaa ttattacata aataaaatga 420
t 421

<210> 36770
<211> 234
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36770

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atgtccaatt tttagaagac atttttcctt attacccaaa ttcgttgcca atctctaact 120
ccccttcagc ctctatacaa cctcccttta ttccattnta ttgtgaatgt atgaattcag 180
ggttttgatg atggccaagt agaatacaac gaggttgctt caaaaaacat tcaa 234

<210> 36771
<211> 250
<212> DNA
<213> Glycine max

<400> 36771

tcacaggcac ggctaaaggc gtgttagtct cctgaaaaca acactcgtgg tagcctcctc 60
tactaagctg cccttattag tagtctttgt tgtaataaga gacttgtcaa actgtactca 120
agtcacgtg atgttgatta ttttgtatct cacttccttg tgacggtaca ttctagggct 180
ataaactgac cctacatacc gtaaattccg taaaattttc gcataagggt ttgggggttg 240
tttcatcatt 250

<210> 36772
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36772

aaagggtagt gngtttgtat nnctgcanca ttgatgatan gacctgngcg cngangcnga 60
 cgaatctgcg tgagcgatgt gcaacaagat ctctttggag attaactaat ctcaaccgga 120
 ggggtcataa gataatgaca cgccactcat ggtacatata tgccataaca tagaaggtat 180
 atctcaacct aatctgtcgc agcactccat tattatatat tacaattatc catgtttggc 240
 atgtacatgt gagtccttgc aactattgtc tccccacca tgacggaagt atctcgctct 300
 atcaacaggc caacatcgga aggatgctag taaaaatgat gctgatcact gaagaagcat 360
 tctttgtgct ttctaacgtt gctgatagct ctgaacacca atatttggtc gcacttatga 420
 cgatctgagt agaacgagct gatacaaaaa cggacaacat atcttgtgca ctcggtattga 480
 gaagtgtgcg tgaatnttta agctcaactg cttgaaac 518

<210> 36773
 <211> 151
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36773

ttccactgta acggaggtgc gaagtttgta atgattgtca tgtggtgatc acacgcattt 60
 anatgtctag ttatacatgt ttggaagatt ctacataaga tgataaataa taatatttgt 120
 tagttttgta tttatatgag tcataataat t 151

<210> 36774
 <211> 213
 <212> DNA
 <213> Glycine max
 <400> 36774

attctgaatg cttatgtgat actggatgaa ttgcttatac ttttaacact tataacttgt 60
 tatttattat tttataatta ttatttatag gttctagatc aattgaagaa tcaacgtcta 120
 ctgatgagat tgaatccgat gatgaaggta tattcacttt tagtgggtct aaattttctt 180
 aatatcatta tacatatcta attttcaaatt ttt 213

<210> 36775
 <211> 449
 <212> DNA

<213> Glycine max

<400> 36775

agaagaaatc acatgtgtgt catcatcaaa tatgtggaga atgtgaatgt atgcatacat 60
gattgtgatg atgccaaaga agaaccacaaac aaggctgctt caaatgataa gcatttgctt 120
caagaataat tcaagattgc ttcaacaaac aaagccttat ttcaagattc actaaagacc 180
aagccttgcc ttataacaaa gtgctttcaa gacatggaag gctctggtaa tgcattacca 240
ggaagtgtaa tgcattacca caagacaggg ttgagaaata gctgttgaaa aagggtttga 300
atttgaattt tcaacatgta atccattacc atatgtctgt aatcgattac cagcaacgga 360
actttggaaa ttcaaatcaa aagtataacc cttcaattat actgtgtatc gatacacaac 420
attgaatcga taccagtgga agtttcaaa 449

<210> 36776

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36776

acacataact cggntgtttg atattggata ttacacttgt ctatatgact canacaacaa 60
agacactggg agtagagaat tacataccct gcagaacagc aagaatatta ataattacac 120
tagccactgt gaaaatttca tggcaactaa tttagtaact acttaaagca gaaaagcaag 180
aatattaata atcttacctc aatgccccct ccaagacctt caaatacatt tttcagattt 240
ctagatgcat cccagacttg aacaattcca tggaagcacc ctgatgcaag aaactgtcca 300
tcataattaa aatctanact tgatacaaaa tctttatgac ctacacaaaa tcaatgacaa 360
actcacgatg gaaattcaat caattgaaag taacatgaca ttaccaatca tgatgntgaa 420
cctatctatt agaaaataca catccagtat agcta 455

<210> 36777

<211> 334

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36777

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 atgcctcagc tactatattg aataaaaatg gagctagagg gtccccttgt ctaagacccc 120
 tttgaggctt gaactccttt gtggggctac cgttgactaa aactganatt gaggtgatt 180
 tcagacaccc ttccatccag ctgatecatt taggacaaaa tctgttctt ttcagcatat 240
 accagaaaca aattcatgat accgagtcac aagccctttc ataatacaact ttgaatatga 300
 ggcaggggta tggctcctct tagcttcac aatg. 334

<210> 36778
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36778

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 attcttcttg ctatctgtaa gacgaaaagc ctgatagcat gcgaagactg acatcgtctt 120
 ctgcgccctt cgtcaatcgc ggccgacaag ccattgaca cgcggagatt tacgtcatct 180
 tcggcgctca caagatctgt catactgaca ttngagtcac gctgacgggc ggagataccc 240
 gagtgggtat ccgtataaac attctttttt gctgcttgaa gacgaaagcc tgaagcatgc 300
 gaaac 305

<210> 36779
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 36779

cactacaagc cttaagtga caaccatgat atcaccatat ccttaaggaa ttttgagct 60
 ttgaaattgt tttgggaata agtgaggggg tttttgttc attgaataac atgtattgtt 120
 ggccatgctt catgatatat tttgagccat acttgatgta cattgcatat tgggtgaaatg 180
 ttggacatgc tgaatatgat gttgttactc aaaagctaag ccatacttga tgttcattgc 240
 atattggata aatgttggac atgctgaata tgatgttgt 279

<210> 36780
 <211> 220

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36780

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 ttgatctttt tatatgaaac atggatagta tccatttaat tttccttgat tttaagacta 120
 cgatagactc atgttcatat ataatatgaa acataaaaagc tccaatggaa aacagtcacg 180
 ttcttgatta gtatattaqa caatgaagtc tatcataatg 220

<210> 36781
 <211> 337
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36781

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 aacatacctt gttctgtatt ttcattgtga ttattcctac caaacagtat gacaaaccta 180
 tgggtgtccca tatgagtgcc taagtttgta ttgaaactaa taaataagaa caaacttacc 240
 taatgagtcc ctatgtacac aaatcatgaa gatgctgggt gcacgagtga ttttcaatag 300
 agtggtgcac caccataac atttattaca tcaccta 337

<210> 36782
 <211> 125
 <212> DNA
 <213> Glycine max

 <400> 36782

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 aacatagtga tcctatgggt gcaaactcct caatcccgtg gctattgctt ttgaatgtgg 120
 gggggg 125

<210> 36783
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 36783

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aaaactctca ttcatcaaag ttacaacaag tgttacacat gtttctatat atagactagg 120
tagctgtctt gagaagcttt cttgagaata cttccttggtg aagcttcttt gagataactt 180
ccttgagaag ctaaagttaa tctacacaca cccctctcat aactaagctc acctccttga 240
gaagcttcct taaataagat ccctatcgac gctaaagctt agttaccac acctctctaa 300
tatcta 306

<210> 36784

<211> 224

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36784

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atntgatgaa gatactttga acactnttct gaagacccca gtgattctgg aagaggggga 120
aaatctttgt gcttattccc ggtttgcact cctgaggctt gatcctcacg agttggctgc 180
taatctttgc atcccagga ggggatatta gctaaatgtt gatg 224

<210> 36785

<211> 99

<212> DNA

<213> Glycine max

<400> 36785

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aatattaata attacactag ccactgtgaa tatttcatg 99

<210> 36786

<211> 242

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36786

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acctgagagg ttgtctaata naagttgctg ctctgaacta cctttcatat tgacaggcag 120
aaagaattcc aatatgtaat catcatcatt agtataagta ctccttagcc taattgcaac 180
tgcagcattc aaattatact ttgcgtgcat gatggacaag tgggtattca ctaatatcat 240
at 242

<210> 36787
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36787

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caacaacctg gagcaattga gcagcccgaa gcttatgctg caaatattta caatagacct 180
cctcaacctc agcagcaaaa tcaaccacag cagaacaatt atgacctctc cagcaacaga 240
tacaacctg gatggaggaa tcaccctaatt ctcagatggt ctagccctca gcaacaacaa 300
tagcagcctg ctcctttcta tccaaatggt gttggcccaa gcagaccgta cattcctcca 360
ccantccaac aacagc 376

<210> 36788
<211> 313
<212> DNA
<213> Glycine max

<400> 36788

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atgaacaaaa gctagaaaat gagtatgcaa aggtatcggc cctgtaagcc gaaagggaag 180
cgagagaaag agtgattgat tcattacaca aagaagcaat aatgtggatg gataggttcg 240
ccttcacctt aaatgggagt caagagcttc caagactgct agccgaagct aaagcaatgg 300
cagacgtgta ctc 313

<210> 36789

<211> 176
 <212> DNA
 <213> Glycine max

<400> 36789

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 tcagcataac caatgagata tgcactaacg gtccttgggt caacatcttc tcatgcgatt 120
 ataaacttaa cttccaagac cgccacctc gcaaatgttc atacttgctc cccct 176

<210> 36790
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36790

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 ttattattga ctataataaa ataactgaaa caataatcag aaatatcatg cgcttctata 180
 taaacataaa actgactacc tactatttct actatttaag acaatctctg aatatgactt 240
 aaaacctanc aaaagttatg aagtgtgact atgaattcta gattgatctt atcggattta 300
 ttcaaatt 307

<210> 36791
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 36791

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 acataataat aaagtttagg acctcacaca ctctactcac gtttttagat ggagtacact 120
 cgtgtttaat gctctcatal gcttatgaga atgtatccct cttgccttta cactcgtgt 180
 tactttaagt cctgatggac caatagacac acagatatta aataacgaag acatatgatg 240
 accaacgatt gattggatac acttgactga tcggtat 277

<210> 36792
 <211> 306

<212> DNA
 <213> Glycine max
 <400> 36792
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 cgaactagca caatcagccc acaatcctgc ttgtagcggg tgctccctca tacgcagtca 120
 tgcatatcaa aaccgttggt agattccttc tggatagaga ttatcacaat gctgtcagga 180
 gaattactct attttagctc tgtaataatc aagcacgaaa aaataatatt tgcttttacc 240
 ttggatgtac cccttctttc ttcatttgag gccgtgcctc ataccactt gattcttact 300
 atacat 306

<210> 36793
 <211> 191
 <212> DNA
 <213> Glycine max
 <400> 36793
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 ctctcgagag attggaatgg tcataactct tcacaccgat gtccgaatcg ggccgataat 120
 atgtctagac gctctaaatt gatcaacgga agctctcgat aaattataat gggcataact 180
 tttcactcgg a 191

<210> 36794
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36794
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 attatgaggt ggagatgtgc ttttattact aatattttac gcagagggtta ttctgaataa 120
 tagaaccata ctctcatcc tcgatgactg gacccttgat ctacgaatta gtaagaggag 180
 aaaatacatt tcatgactcc ctgtcaaatt cattgtgtgt aaaaatttag cttgtccntc 240
 tctgtatata aactggata atatacattt cgtggaacta tgaagaaagg atttttaaat 300
 gtcaattgaa tactatatat acgatgggta atattctact ttgtttcata cacttggtta 360

accaattaac caagtcttgg tagtaggaga attggacatc tcttaataat aatcttaaatt 420
 gaatctagtg agattggtca tttacttcgc gctgacgttt taatagatct cttatcaaag 480
 ttaccatctt ctaggaaaaa ttaattcc 508

<210> 36795
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36795

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 aggtgcttcc gtaacccttc cgagatgttt ccgtaagcaa atccgtgaag gtttgcgctcc 180
 gttctttacc gttcttcac cgtcttctgt tcttcaacgg gtaagttttc gaatccgaga 240
 ctatcaattt atttcttgtt ttttaagctt tcattctttat ttcgttcatt ttttatatct 300
 ttgtctacgt ctttaacgcg ctcttaccgt ttatttaagc cgtttctccc ctatacatga 360
 ttaatgattt c 371

<210> 36796
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 36796

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 caaagactcg tataacatta tccagataaa acattaaaag aacaaatgag tagaaatctt 120
 ttctgcatag ccaaagaaaa tctcatagta tattcggaca tttaaccaa cacgtagctg 180
 tcaaccgca aagtagtaca aaataaaatc aaatagatat ttagctattt ctccgtaacc 240
 catcaatata gccacaccaa aatctataga acaatgaaaa ataataagat catatgaatg 300
 aaacatttaa agaaaaata 319

<210> 36797
 <211> 199
 <212> DNA
 <213> Glycine max

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<400>	36798
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<400>	36799
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<213> Glycine max

<400> 36803

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 tctccacccg cagcacaaaa caaattagtt ggaaaaatga agataaactg tgttaagcta 180
 gacctataaa cgtacaagaa gatactgtca gtttgtttca ctaactaaat caaataacat 240
 gttttttag cttatatata tcattaagaa accagtacga cagtacctga aggaagtga 300
 ttgtctttta atcgagtcag aaaccagtat atatcattta agatatgtaa gtgagtgggtg 360
 tcttttcaga cgaatgaagc a 381

<210> 36804

<211> 191

<212> DNA

<213> Glycine max

<400> 36804

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 gggtcgggtca gatcatggat aactcgctcg tgaagttgca aaccatattt cgagaagatc 120
 caacgggttaa tgaaggctgg gcagcatttt taccgaggca gtttcatgta gctctctcta 180
 gaagcttcat t 191

<210> 36805

<211> 251

<212> DNA

<213> Glycine max

<400> 36805

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 cggcagtaga tacaatccag gttggaggaa tcatccaaat ctgagataga caagtcctcc 120
 acaacaacat cagcctgtcc ctcttttcca aaatgctact ggtccaagca agccatatgt 180
 tcctcctcca atgcaacaac aacagtagca gtcacaacat agacaacaag caactgaggc 240
 tcctcctcaa c 251

<210> 36806

<211> 529
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36806

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 gaaccctaac gagaggagtg cgtacgcaga ttctctngtt ttgtccgctc ggagtaaact 120
 ggggagaagg atatgtttgt tactgtcccg actattctac tccacaccat agataacacc 180
 tgtatacgat gtcccgacag tggctgtgag aggcgagatg cagaattaac ctaaactgg 240
 ttacatcttt gaagatgcgt gtagatggct tgacttctca ataacaagat ccatttgttt 300
 gaagaatgat tattatttta taaatgtagc accactatat ctattatgtg gcgatgcacc 360
 tattaacgat tgagggtggc tgtatatgtg aaatttatat ccatgcatga tgtctatcac 420
 atttggaaca aggcgctatg tgaaacaata agatattctt ggtctcggat aggaggaaca 480
 ataatcgat ttattattat tgtgcacacc tctggccatg ccaacgccg 529

<210> 36807
 <211> 235
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36807

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 cttagaggta atttagtttc atacaatcaa nacaggaacc agtgctcgac agatattatg 120
 tttttggcag aatctgagct ttaaagtgtt acaaacaagt tataacatca ctataatttg 180
 aaattaagtt aaagtntaat gtattaacct atggaacatc aaaagagagt atttt 235

<210> 36808
 <211> 216
 <212> DNA
 <213> Glycine max

<400> 36808

ccttcttttag tggacgtagt ggtggaagag acttccttac tccacctac tcttctcca 60
 ccatgactta gggagttttt cttttcctat ctcttcttt gctgttatta cactgggtctg 120

attctctttg atgatttaat tgtctttaat cttttaattg tgctacattg aggacaatgt 180
gttgtttaag tatgggggga gggggggggc tctctc 216

<210> 36809
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36809

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ggacaagatt tgtagaagcc cttcttcctc accgaatcct ctgcgtttga agacaacatt 120
ataacataag tgttngaaga caacattata acttcagctt ttctattgga attgcttgaa 180
aatccttgag aaattggtga cctattttaga gattgaacat ctgtatcaac accatcagct 240
tcaacttctg catttctatt ttaattgctt gaacaccttt tgaaggttgt gacctatnta 300
gatattgaac atcaacatca acatcaacag ctttaacttt ct 342

<210> 36810
<211> 256
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36810

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gtgaaaatcc acccctaaaa catggcttat agagcgttgg tcttatctat aatggtgagt 120
aaaaaatacg gtcaggttt taaccatgga cattgcagcg actttattca ttaatatntt 180
tagactttat gaaaaaaact tggcgttaca attggattaa aactcaaag aattggcga 240
aactcccaa aatacc 256

<210> 36811
<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36811

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cgcaatcgga tggccaaact aaagttgcta atcatattgt tgatcagtac ttaggtgctt 120
 ttgtccatat aagaccatca gcttgnggggt gtttcttatt atgggaagaa tggtcctaca 180
 atacatccct ctattcagct acaagaatat ctccattcga aatcaccttc agcaggaagc 240
 cacctaattt tcctcagtat atagtatgta cctctaaaat tg 282

<210> 36812
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 36812

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 tcaacatgca ttggaatgga agaatgctcc agagcaaacc cacactaagg agtgacataa 120
 ggacgatggt taaagaacat gtaatgcacc ttattaaatg tttctagtaa tctataacag 180
 cttgtattga atgtttctta taaatatttt ctctttcgat acaaattttc taacttttgt 240
 c 241

<210> 36813
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 36813

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 aactatgct agatggcaca ccatgtaatc tgacaatctc actaatgcac agggagggtca 120
 acttctctaa ggaaagccta atattgatgg ggataaagtg tgccaatttg gtcaatcttt 180
 caacaaacac ccaaatagaa tcaaaacctt tgtggtcctg ggtagtccta caacgaaatc 240
 catggagata ctatcccact tccacttggg tatctctaaa ggttgtaact tacttgaagg 300
 tttgtgatat tctatcttag ccttttggtg gactagacac gcatacacia acttgctacc 360
 tctctcttat gttgggcccc aaaacattac ct 392

<210> 36814
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 36814

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gagttatggg actcaagtat gaaactaggc aatccgccag tgaagacatt gagatctaaa 120
gcaagatgag ttaaggcaag gcattccaga aacatattct tacatgcgaa tccaactacg 180
aattagttca gccaggtttt gttgatatta ggcatagagg ttaatgtaaa tataggaaaa 240
atataactat atggtgtggg ccacgtacgc tgtggtatgt aatgattata attgaattcc 300
ttgttgttta aaccaccata atga 324

<210> 36815

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36815

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attccagggt tcttttaaaga ggaatgtata actatcgata ccatagttga tattagacag 180
cttgacatgg aaaaaattac cgttgaagat gtaagcaagt tagattnttg tgactnggag 240
atagcttata ttttctactg ttggtatgct taaattactg gctttctgtt aggaagagtc 300
atattcttag aaacacatgt agggaaacac tgcaacanna cattgtttgt tatgtgctgt 360
tatngagaga t 371

<210> 36816

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36816

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gaatatgccc aaagatggag agatctcgca gcccaagtcg taccgcccac gacggagagg 180
gagatgatca caattatggg agatacgtta cccatgttct actatgaaaa gctgataggc 240

tacatgccag ctaactttgc ggatctcgtc ttcgccggag aaaggattga atccggacta 300
 cgaaaaggca agttcgaata tgcttccaat ggtggcccca acaacaacan aagagcccca 360
 gtagtgggag cgag 374

<210> 36817
 <211> 190
 <212> DNA
 <213> Glycine max

<400> 36817

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 tgcacaaac gaagattccc aacctgtaaa gggagtgttc ccgacaatga attctcacca 120
 agatcaagat acctcaactg tgagagaatt ccaagttcat aaaggagtcc cccatccaga 180
 taattatcac 190

<210> 36818
 <211> 499
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36818

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 ctgtgtatgc atatggcgtg gctttatctt atctcggcta gacnacatac tnatggagge 120
 tgcgattgtt attatataaa ccttctctct tgatcttgaa tctatattta cttgatcttg 180
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 taagcccctg catctctggt catgcggcac cttatttatt tactctactt caaccactta 360
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 gattacaatc gctttgtct 499

<210> 36819
 <211> 198
 <212> DNA

<213> Glycine max

<400> 36819

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ctctgcataa gaccgataat gctaaagagt ttatgagatt agtgggaaag cactctcaaa 120
tagcttataa gtctcttgct aggacattaa tgagtacatt aaccaccatg aagtttgatg 180
gttcatgtac tatgcatg 198

<210> 36820

<211> 333

<212> DNA

<213> Glycine max

<400> 36820

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ttctagagga caaggagaag gaataggaag aacttcttgg agagacaatg aatgggtctac 120
ggagggtgaa aagaaggggtg tgtcttcaaa gaagggttaca tctgctgaca ttagtagtatcg 180
tctcatgggtt ggagaataac atttgtaacc tttttgaaga cgagaataac ccaagactga 240
cctagcagag agtttgtcta taccaagaga caaatcattg acaaaacatg tacaaccata 300
cactttatga gagacatgat atagtggatc atg 333

<210> 36821

<211> 283

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36821

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gaccaatccc gacccaaccc gggcatagtc ggtcagtgag aacctgtgat gtacctaaac 180
aggcgagctc ctgacagtca acagataata ggaacaaaga ccacatagca aggatgcttg 240
tggtgggcttg ccantgtga aatttgtgtg atatgtggat tat 283

<210> 36822

<211> 246

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36822

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 agggctactg ctcagacttt atgacgagtg gagtgcctta aggtggctaa tgccattgat 180
 gcttttgttg aagccgtana agtgaaccac taactgtagt tgcgcactct gttagatggt 240
 gatgac 246

<210> 36823
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36823
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 gatccaaggg ttcataact ctctttgctt ttttaatttt gatatgaata tccttcgata 120
 tgtccctga attcctacaa tcacaatcac taattgattt accttctgtg tcattctctt 180
 tcagtgcatt ttgtggtcta gccttcgatc cactttcttt agagcttgct aatatcgagc 240
 aaccaatatt ggctagacaa actagtttct catgacaaat atcctatcat ggaccatatt 300
 acttgcataa 310

<210> 36824
 <211> 181
 <212> DNA
 <213> Glycine max

<400> 36824
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 caaccttaag tgcaccagtt ggaggttgaa cacggtcttg ttgctgaacg aaatgggtggc 120
 gatcaatgta ttgtggtaga tggctcgaggt tcaattccac tcgatgccta ggttgatgat 180
 a 181

<210> 36825
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 36825

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 agacacccaa tgccaatttt tatttgattt aggacggcca aggtattgct actcactaga 120
 atattgaact tatctccaat gatgaaatat gttgacacaa ggaaccaga aaaaaggg 178

<210> 36826
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36826

cgaggtactt acccgttgaa gatcgaagaa cgatgtttat ctaatgaaga acgtcgaaga 60
 acggttgaga cctttgcgag attcctcacg gaaaacgtta cgaaaacgtt tcggaagcgc 120
 ctccgcttag attttcttca cggaaacaat ntttccaagc aaattcgaaa gagagagaag 180
 tgcctaaggg gctgggaccc tntcttctta tttcctcccc tatttatagc aaaatagggg 240
 aggtgggtgc cgcccagctc gcccaggcga gctcagctcg 280

<210> 36827
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36827

agtgattgtg tgcaaccata gattgtacat tgagtatcct ctttgatatg ttctatagtt 60
 gattctgcgt gaatttctaa ttatcataac atatgattca tggatatgat ttatgcattc 120
 tttctttctt tacattgtaa gccactgacc aaaaagatat ctcgatgtat attgttttat 180
 catttgcaa gccctatgag ccaaacactt catattttgt tggaacacta acctatgata 240
 aaagtttcct accttacctt agttaggaag acaaagagtg tntgttgggg aattctatca 300
 tttgggggct aatgtgatta aatactctat ttttaaattg 340

<210> 36828
 <211> 515
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36828

agatttcac ncacganatn gcgcnacatn ttagantacn cnaccncang anacgcagat 60
 cacactatgt ggggtggagcg ctttttttatt tttgtttntc tcnccaccga ccgcgcggga 120
 gtgttgctag aaaaacacta caccacaaaa caacgtactt aacactcaca tctaacacag 180
 aagattgtgg ctccattatt cctatcatca caatactggt atgtagaaaa taatctgtat 240
 gtcaactaac tctatgatgc cattgtctcc acctaaagct catcttcact atcatattca 300
 atggctatgg tcacatccaa agagaggcta gaactctctt cattcacagc gatctctttc 360
 actttgattt cacacatggc gattatctca ggcttgggaa cagaaactat ttcaattgat 420
 aagacatgac cttcttgaga ggaaccatcc cactggggag gcccgctctc cttaaattcg 480
 tcgctacacg ctttgagaga gaatcccttg tccag 515

<210> 36829
 <211> 178
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36829

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 tgtgggctta cttctgtgt ggagtaaagg ccctaatgag aaggtccgat ccatcttgtc 120
 tcacttatat aagtggagag ggattatatt atgagagaga gagagagact tatttgtg 178

<210> 36830
 <211> 230
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36830

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 tgacagcaac ggaacatgaa atttgggtaa ttgaagttag ctaaaaagtt tccgtgtgtt 120

tgagagcctc aacattcaat ttcgagcgtc tcgatatatt aagggactca atcagacatc 180
 cgagtaaaaa gttattgtcg tttgaatttg ctcagagcat cgacattgaa ttgcgagcgt 240
 ctcgatatat tacnggactc aatcagacat ccgagtaa 278

<210> 36834
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36834

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 taatacacta gctntaactc gctattcatt tgagctaatt gtcttcatca tgtttccttt 120
 aggttgagat aacctaaacc ttttgatttc atattatttt atgggttatgc aggatattat 180
 acgactgcca atgctattta tctntcttca taagccattg gcccaatttc gatctgtttt 240
 aaaagcccta agagcacaaa ggcttgcttc aatcggtggt ggatctcttt agaataaac 300
 tgaacacatg cactgcctct ccaaaactta tttgcataca tcactacaga catatatttc 360
 ac 362

<210> 36835
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 36835

acgtacctaa gcaggcgagc tcctggcagt caacagataa aaggaaaaca agaccacaga 60
 gcaaggaggc ttgtggtggc tggccagctg tgaattttgt gtaatattgt gattgtggcc 120
 tctggtaatc gattaccaag ggtgggtaat cgattacaag gcttaaaatt gaagacaggg 180
 ggctaagatg gtctctggta atcgattacc aaggggtgta atcgattacc aggcttgaaa 240
 acgaggtcag gaagctaggg aagcctctgg taat 274

<210> 36836
 <211> 195
 <212> DNA
 <213> Glycine max

<400> 36836

tgccttttag cctctgaggc agtcgtggag cagattcctc gtctcttgcc gacctgtctc 60
aacaaggcag gcatgtttta ttggtttgga ttttgaatct ctcttggaca ttttatagag 120
aacttggtga ttgcttgct ataataactt acatcgggtca ttgctgggtt tttttttgta 180
attcccggtc acatt 195

<210> 36837

<211> 1349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36837

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attgganntg acanncacna ngnanccggn nngncganng cgctannntn gaannntnan 120
nggcangtnc accccctct tacgatcaat agtaggntcg nngaccngca attttnaaga 180
tanncantgc ntnntcatg nacngangnn nnnacaacgc canaacngcc ccnannnecg 240
gcganccgan nagntangta tangtnatcn aagcgaatgn tacnatctt tcntcccat 300
cngctngcna cgctgtnncc cancnannan ctnanngna nnannacncn tngnaacccc 360
atttcgaaac cctagangga ccnacntngc antaatannng antgggggtng cctcaantgc 420
cccantatt aananattaa aactanannt ncntccttta gtctcgccct tcagggtagg 480
agtagtnctt tcgaactant ncngtaaag tncancnagn tcgaaccaag catagtacta 540
cctantntgt actcagacgn ttntcnatct nntgggtgnt cggcangtgn gcnantnngt 600
agcanntact cccgtangct cttcntaagt nncnacccta acntacagca aaatanngcc 660
cgcnagcann accancgacn atttcgggggt anaccnatng cnggaacntc ntcgngcat 720
cgtttggatn ggaggggatng cntagtctc tgcaaaaaac cangcatncg cntccctanc 780
naccancng ntantancac ctaatgggggt cgatcaacgg tcagttttan ttttagctnc 840
ccagtactag tccantagtc taccanttc gacgtgcagt tgaaactcct aatcatggta 900
ctcggggatc gtcaagtcaa tangcncca anttannatc nancnnant ngatnngtca 960
gtggtnghaa gctnncaaga nnaccgncg ccctcatcag tcnttctnt taagcttgaa 1020
aagtagtate tnnatcccca ntnatncgac ngctntgnga nnggggtgnt aaacgaagcc 1080

gtnttcgngc canaaaactg anctcaaaat anttacnatn ttgtaaaacc ccatctactg 1140
 ctgtntctctt ncaagctgca cngaccannc angcagttac tcattcattt gcttttagttg 1200
 ctanngagct tcgaannagt cngcacngac ntgggtctaa ntantcgtcn ctgacaccct 1260
 ccaaaaaanat gagtanctgc cantantgga ccgcanaccg tnnagantcn tnantcgttn 1320
 acttataata ggggtnagng acnacgcgn 1349

<210> 36838
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36838

tcgggttgat gaggaaggat atattgtang ggtatttatg tacgggtgag gatgatcctc 60
 aatagcatca tatggttgtg actcacaaaa ttggtgaaga atggtgcaga nagaagcccc 120
 actacttatg ggtatcaaaa tgaaatattg catgggtccaa tgggttgagga cacagacggt 180
 ggtggattnt tgttttcaag gcctcaagtg tgaggccttg ctttgtttca aagaacaatg 240
 agttggggct ttcaaaaagta tccccttcat ctactgtgat tatttcacca tcgtagtgca 300
 ttaaccattt gatagatgag gaagacatat tgtgntatag acaaagaata gagaaacaaa 360
 tgtga 365

<210> 36839
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36839

aagctgaacc attntatcaa tagacacaag tagtgngnta ttcaganaat tagagtatat 60
 cgcggttatc ttagtgagag tgattctcct aaattcttga gtgattcaag aacaccctgg 120
 ctgtatcaaaa ggactttcac aacctttgtg tgttgcctc gctggaaaga gtgattcttt 180
 ccttcctatc atctccaccc ttgttctttc aaacaacatt tccagataat cacctctgcc 240
 caaattatct cgtgaccata actcccattt acacactcaa attaagtgat tcttgatcct 300
 aaattgaatt tcaaacgaga tctttcacct cgttttggaa 340

<210> 36840
 <211> 351
 <212> DNA
 <213> Glycine max

 <400> 36840

 gatgcacaca cctgtgagca agcgacgaag ccttttatct tctaacctgt gcgaacgaag 60
 agcgggagag ctccacaaac acggcgagct accaagagac ctccatgtct tacaagggtga 120
 cgacaagcta gctcgatctc gataactcag acatgacaat agctgaatta ctgtatcatc 180
 aggcaaacac ttccaatcaa caacccttg cctttgagtt gccaaatcca aaacctcatc 240
 ttgaacttca gggagactag actgcaccac attccctatg ctatgtctcg ccagctttcg 300
 tctcactcta tgatccatgt ctcaacaaaa tcacagcata cccacaccaa c 351

<210> 36841
 <211> 173
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36841

 tggtcctaac ttttaactcg taggtctgat tgaggcggat aatatatcga cacgctccat 60
 attgaacaat ggaagctctt gagcaattca natggtcata aatagtcact cggaggtccg 120
 attcaggcgc ataatttatc gagacgctcg aaattgaaca acggaagctc tca 173

<210> 36842
 <211> 188
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36842

 gattgnnggg aataaaaattg tgctacgttc taattcagaa ttattataga atcaagggtgg 60
 agattgttgg aaggagtgaac cgacactgat agaggtaact gaatgacact attgtatcgc 120
 tccagtctag cccttagtgt agaattctatc tcttgtcagt ggtgcatcta gtctattcta 180
 tgtaacat 188

<210> 36843
 <211> 262
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36843

actatgcaga gaatatccaa gagaaatacc ttcttcagat ttatcatcaa attntcctaa 60
 gtgatgtttg gcattattca atacaaaaca ttacaacca aagatataaa gatgtgagat 120
 gtttggtttt ttgccattga acaattcata tggagctttc ttataatgg gtcctattaa 180
 agccctatth aaatgtaaca tgcagtggta acagcttcaa ccctggcata ccctaatttc 240
 gtccggggac ctttgcttga tg 262

<210> 36844
 <211> 355
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36844

cgtatgaact tgtatacгна cctttggtaa aacgccggcg gagancnacg tagaatgcgg 60
 gactttttct aaaccagaat ctacaggggg ttttgtactc ttacccttc accatgcaat 120
 gataggaatt tctagatcat catctacgga acaaactagc catacttatt tgttcagtga 180
 aaagggtaat tgttctatgt cctgcggcgc caacttcaa tggaagaaat cctctgccat 240
 ttatgttgta ttcattcagc cgaaggccat tcatccaata ctttcttatt ctgggactta 300
 tgcataattha agtggcggtg ccctcagaaa ctctttatg atgtgtatag ctccc 355

<210> 36845
 <211> 364
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36845

aggtgactga ncccaccttg tatagacgag cgnagagggn ttataatgag aaactttatt 60
 tagaacccca cacaaggggg ggttttacac tttccactcc tgagacatag ggtagatgag 120
 tgtcttggtc ataacattta aacatgggat tgcccacgtc cctacattgg tctaaacaag 180

aagccccac aagccttgat atagcttggg accatagggc ttgtatggac acccagggca 240
 tatggttgcc gattatattt ttggaaccct ttttcaaaaa agctttaagt cccctttatc 300
 caggcgagaa ccaatttatt ctacacccaa tgggactttt ggaattacac tttgaacatt 360
 tata 364

<210> 36846
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 36846

ccaagtaaaa attaatggcg ggtgggattg gctcaaagat tcaacattca atttcgagcg 60
 tctccatata ttacgggact cattcagaca tccgagtaaa aagttattgt agtttgaatt 120
 agcttagagc ttcaacaatc aatttcgagt gtctcggtat atcacgagac tcaatcagac 180
 atccgagtaa aaagttattg tcgtttgaat tggctcagag cttccacatt caatttcgag 240
 cgtgtcgata tattacgggc gtcaatcaga catccgagta aaaagttatt gtcgtttgaa 300
 ttcgctcaga gtttcaacat 320

<210> 36847
 <211> 240
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36847

aagaaaagac taactacggg aatggaatga aaaactatgt aagaatctta cagggaccag 60
 tcttgaaata aatgggaaaa ttccagataa ttatttttgc aagatcctaa tntcacaatt 120
 gaaagcaatg accattcaac aacaaaataa aatatacatt tcaataagtg aatagcaaaa 180
 tgacaaaaat gaaaagttct attgtggcaa cttacaagct tgtaattgag gcattgtagg 240

<210> 36848
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36848

gggtaactga naccntttg tatacccgcg agtagatcac agaaaatact cgaacttggt 60
 ctggaatnng gnatatztat tgggggttatt ggtcaaccta ttacctcctt tgccangaag 120
 tccaatggag aatggatcct cccttagaat tcaatccttc ctttgggaat tgaaccatga 180
 gggccgatac ttaatctgtg tattatctag agatagggat cctatttggt cctctttggt 240
 tctgttggtg tgccaatac ttcccgatag ggaaaaagat actccatttg tgctatattt 300
 atggtatgnt tttatttggt tgggtgtctgg aaatggccta tttcattccc aatcccggtt 360
 cttcaatctc tgggggattt gattgatgag aattgcttat ggggggcgta tttcctttcc 420
 actgaaatgc tacaacttta ctgcatgttg agattgatct tc 462

<210> 36849
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 36849

tcatccaacc ttatatgggc gaatccttca caacagcagc agcaacaata acaaccttat 60
 cttcaaaatg ttgttggtcc agcacacatt acgttcctcc actaatccac caacaacaac 120
 agcaacagcc cccgaaacaa caaactatag atgctcctcc acaaccttcc cttgaagaac 180
 ttgtgaggca aatgactatg acaaactatg agcttcacaa cagaccatag ctgccattca 240
 gagcttgact aaattagatg ggacaattgg ctacacactt aaatcaacag ctggaccaaa 300

<210> 36850
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 36850

tatcccttaa tggatggcgc ggggggtcat cttctttcct ttgccctccg ctgcatctcc 60
 atggcggaag attaccatta taggaccca ttgaagctca aagatccagc ctccatagaa 120
 gcccacaag caagcctcca tcaagtggta atcacagcac aaaagcttca agtaagtgtc 180
 acttagacct gcattaattt ttttgcttta cttctcttg cattgttgca cctccattgt 240
 ttgtccatgt atctcctcac atgtcttgag ctcaatgttg ttaacatgat tgtctacaga 300
 taccaccaag taaacttact atcgatgcta gacttgattt tttatg 346

<210> 36851
 <211> 487
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36851

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 gaagaagatg ggggtgngat tattgtgttg ncgacacnaa gcaaggtctg agagacgtgt 120
 gcaagtttcc tacaaccct cactaggtgg gccattaacg ttatcatatg ctgacgagtt 180
 ccgacaatcc cgcgaaatctc tatctgggcg gaatacgaga atgccacagc tttggccttg 240
 gctaacaatc ggagaaattg tagagtccca ttcaaaggaa gagcaaaccg atccattcac 300
 atgggtggcct catggtgtaa agaataatc gcgctttctc tacactctat tgctgcgtat 360
 acttaggaat actcaaccga gattctacgc tagccgggca gggcaacacc ctactgtcnt 420
 gagtactaag catgaatgct aactgttggt cttgtgccgt ataacggtga gacaacgttt 480
 ttggacg 487

<210> 36852
 <211> 490
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36852

agagctgagc ctgtatagca acatttataa taagaccccg ccttancnna gaantataag 60
 agagagatgg gttttttctt tttttacagc acgaaccctg gggcgaggtg gatactaaaa 120
 aaaccacccc cctacgggga atggaatgaa aaaactatgt ancgattctt cacagggtac 180
 cacgttcttg aaataaatgt ggaaaatata cctaaaggaa atctcttgac gattcctaac 240
 agtcccaatt gaatagctat gacgccttcc atctcaaaca aataacctct ttctctctca 300
 ttatggaccc acctcgcgta cccgctcaca aatccaaatn tagacttcga gttaaccgcg 360
 caccactaca cgcaagccac tgctgccagg caaatctatg cgaagaccta ccaccctttt 420
 cgtaggttcc acacactcct ccccatattt atttggatc ctctccatcc caatcttttc 480
 tctctacccc 490

<210> 36853
 <211> 187
 <212> DNA
 <213> Glycine max

<400> 36853

acctgagggg acttatagcc tataccatac ttcccacaat ttccttagat atttatcagg 60
 cttgttatgc caacgatgcc atttcctata cccatgccgg gttcataact cgctcccaac 120
 atcactaggg ccatcattac cggcgcatga gacagacaac gctgccc aaa gagggagtcc 180
 agggatg 187

<210> 36854
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 36854

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 atagaatcaa gaacaccttc tggttcaaga ataactttta tttcatgaat caagaatcaa 120
 gatcatgatt cacgaatcta gagatgactt aatcatcatt agtatgaaca agtggttttca 180
 aaaactgagc tgcacatgga tttttctcat atcatgttta ccaaagagtg gttactctct 240
 ggtaatcgat taccacattg ttgaaatcga ttagcagtgg caaaatgttt ttgaaaagtt 300
 ttccact 307

<210> 36855
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36855

atgatcagcc gttgaggtgc ttcacctttg gggacttcca gctatcacct atggtagaag 60
 aatttgaaga gatcatagga tgccctctan ggggaaggaa accatacctc ttctcatggt 120
 tctatccctc gttagctaga atttccaaga tagtccaaat ctcgcgcgca ggaattatac 180
 cacagggagc aagtcgaaaa tgggggtggtt ggaataccga gaaaatattt ggaggcaaaa 240
 gcaagaatct tggcaggtaa aggcgagcgg gtcctgttca tagatattct cgcactgctg 300

atctttgaag gggctctctt tccgaatgtg gatggggttg tggacctagc agcaatcgat 360
ggttttctcg cctatcat 378

<210> 36856
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36856

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actttgtcct aacactctta tatgtgctac tcatctttct atctataatt acataagctc 120
atatgtatct ttatctacgt tcaccattca tcattgatgt tcgtcactaa gctttttttt 180
aatttactgc tcaaataatt tttttaactt tagtctgcaa aaattattta tctaggatat 240
agtgatatcc caacctttgc cctgaagaat ctactttgaa aaccacctt 289

<210> 36857
<211> 162
<212> DNA
<213> Glycine max

<400> 36857

ctgctcatat agcacactgt gtctttttga atcgagcttt attcaacatt ccttggtctt 60
tctttgaatc ttcaaaccat ggataatgat tccccctttt atcagtctga aaatcttaaa 120
taattctcgc cctaatacctt tacctttctaa tgccttcacc tc 162

<210> 36858
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36858

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tgttacttgt gtcacatgt aatgtttcct ctactactaa ttcgataaaa ccaaataaaa 120
aaaaactaan aaatgaaacc taatatcatc aacaacatac accaaaattt ctagtattag 180
tatcaccaaa atttttggct gctgggtttg tgcacattcc ccacatttga tcttcgatga 240

<213> Glycine max

<400> 36861

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cggggaggcg gaatgtccat atcaccttct taatcgtaca catggtgcac tgcgccccca 120
tatgcacaag taataagaga taattctccg ggctctcgtg tccgctaaat gcattcatat 180
catgcaccac ataagcatct cttcataaca tcataatgga catatcctgc atttgtccgc 240
tatcatattc cagcctcaca ttgtgcatga gtcatggcat catcatgcat atgcgttcaa 300
caaacttttt gatctgcaac attgcatacc attagttttc atggtggctc atccttgctg 360
tttctctac agaacactaa caaatgaggg ggaagcgtga aacttcact acattcttag 420
ttcatgtgta ggcaccac 438

<210> 36862

<211> 379

<212> DNA

<213> Glycine max

<400> 36862

gttcagcccc ttacgcactt gtgtggctct ggatattgct gagaacaact atttccgtga 60
agaatatcca agccgaggcg cttctctaac gtttccgtaa cgtttccgtg agtaattacg 120
cgaagattct cggccattct tcaagattca tcgttcgttc ttcgttttct tcagtcttca 180
acgggtaagt acctcaaacc aagcttttca attcatttta tgtaccctg gtggtccaca 240
tttcgtttca tgtatttcta ttctcttttt catttacttt ttataccccc ttttgacgtg 300
cttaagccaa ttatttaagt catttctcgc tgactctatg aataaaataa atttccaccg 360
atcgtttgaa ttgtatcat 379

<210> 36863

<211> 411

<212> DNA

<213> Glycine max

<400> 36863

gagatgagga agtgtagaaa ggtgaaactt gctgctttta ttcgttgacc acagagtgg 60
acctggagat atgtcgcggt ggtcaagaga ccttgccggac gtcaggtggg gtgctattgc 120

<400> 36866
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 gtgagcggcg gagaagctat aaaattaaca agcactctaa agaaatatcc ttaaacaaca 120
 ctgaagatta tggatgattc tgattaggca aagattatag atgggtctga tgccatcaag 180
 ttgatagggg ttatcataat ctattcagtt tatgaaatat tgaagcacat acaaattgta 240
 tgacctattt tttttcatta tttagctagg tttgtctctt atcattaatt aactatggac 300
 aatctgatta tatctgattg cggtgtcaca aatatggggc aagaaatcat cggtgaatct 360
 tctcaccacc tgtgttgaat tgtataattg tgaacactgg attactatac tag 413

<210> 36867
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 36867
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 ccacgtagcc catatcctcg tttctctcaa caccgggtcc ccatcaatcc tcccaagctt 120
 ccacaacatc caagaaaaac aacattcaaa cagcacaagc tatcacagcc aagcaaaaca 180
 gagtaaaggc agataactct gctcaacaca tcaacaaaaa tcacagcttt tctcacttaa 240
 agaccacagt aacaattcct tcgatccaat tcgttaaccg ttggatcgac tccaaaatgt 300
 tactggaagt ctatagtga taagcctaca ttgtaaccgt tgggatctac tagaaaacat 360
 ccagaactca ttctgtacta ctctt 385

<210> 36868
 <211> 537
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36868

cgctgctggg acttgcannt ncanncnntt tagttatann acccgngcgt gcnggcactc 60
 cncngtatat aagagaggat agaggannct attgcanttg gcacaaacct acacacanng 120
 cccgaggagg aattgtctaa aacactcgcg gcacctcact caggatcgag aaggacgcat 180
 atacccttg cgtgtgacct gccaatcct attacatcca cagtttgcta cacacaccgc 240

gtcaatgggc attaactgat cgcaataacg caatctctct tccttcaccc accacccac 300
 ttaatccact aaaggggtgcg tccctatcat caactctcaa tagtctcgtc tacgcgtact 360
 gttcaattga cacacactca ccttgacttc aaacaaaaat caccacccat gcaatggatt 420
 ttgcaccgag aaaacccgta caatcacccc aattcagagg ctatgctgac tggctccata 480
 tctctgataa ttgaagtgc catabccccg caagttcaca ccttcatttc ttgaaag 537

<210> 36869
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 36869

gtatattaac atacaacttc tcttgtaaac aacatcatac atcattccac atcatctagc 60
 cattcaatga ctgaagaaaag actcttaaac tttgaatacc tatcacatat ttggccagag 120
 gaacaccata tgcaagcgta attaagaggc cacctcgtaa ttacatttga taacgtatta 180
 ttagagttgt ctgagaggca catggaagtc aagtcaatct tgccatgatg agatcaatat 240
 cacttggtga cagaggactt acctctaccc caaacaaaag tcactactct taagtctatc 300
 caggggtgaa gaaacgaaga acctctcttt ttacag 336

<210> 36870
 <211> 153
 <212> DNA
 <213> Glycine max

<400> 36870

ttggagagct atctgttgca tgtgatgatc ctagggcatt tcttcttttg aagaattata 60
 tacatgagac acaatcatgg gagcaatttg ttgcatctgt gagaatgaat ttgttattct 120
 ttctggaagc tggatgcatt tttggtcttg ggg 153

<210> 36871
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 36871

ggaagatcat taatccatcg ctgatccatt cataatgtac tacaaaaatc taatccatac 60

agaactatat tttataaaaa acaagggccc aactccatcc attaaatata atcctcctaa 120
 aacgaaaagg aatatctata cacattaata cacccaaaca ccataaaatc ctatattcgc 180
 ctcataaa 188

<210> 36872
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36872

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 ctaaagtatg tgagaggtac agatctatct ttatgcctta caatagagtc gccaggacgt 120
 gtgcgtgtta tgtgacatac aacgacctat ccgcatactg cttgtaattc atcctttata 180
 tgagacgcat agaactgacc ttcttcacac atatggtgtc aatacacatt gatgaaatct 240
 aatgatggcc attatcttct atccgcacct tatatgagag agagctctga ttggtaaaaa 300
 cagctcttaa ctcatttgat atgtaaatac cagctgatat agtgaactgc ccatgatacc 360
 atatctgtat ccgtttatgt taggtaaata tctattcctc acaagacatc attgaggcat 420
 acttgttgct ggctgctgaa tcacttaggc gctgtacaaa ggaccataa aatccgaatt 480
 tttggtgttt taaccataag ctct 504

<210> 36873
 <211> 312
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36873

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 ttgagcggcg tgtctctcca ccttcgcgcg cattctttga aagattcgtg cccctttttg 120
 cacatgttct gtagatgcat cctttccgga gccatatcat aattgtactg atactgccta 180
 acaaaagcaa ccattatgtc cttccaagaa tgaactcggg aatgttccaa gttagtgtac 240
 cangtaacag ctaccccgga aagacattct tggaaaaatt gatcagcagt gcctcatctt 300
 ttgctatgcc cc 312

<210> 36874
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 36874

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 aaaggacttt cacaaccttt gtgtgttgcc ctactggaa agagtgatac tttccttcct 120
 ttcatgatca cccttgttct ttcaaaccac aattccagaa aatccacctc tgcccagaat 180
 tatctcgtgg ccataactcc cattttacgc actcaaaata agtgattctt gaacctaaat 240
 tgaatttcaa aacgagacct ttcacctcgg ttcggaatca cctcatttgg aacctgtac 300
 cttcattatt gccatttcta tattcttggc cagccaccac ttaacctatc gtttaccatc 360
 cca 363

<210> 36875
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 36875

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 gatggcgcgt cctgtcacct attctccttt gccttcgcgt gcctctccat gggggaaaat 120
 caccattaat ggacctcata gaagctcaaa gatccagcct ccatagaagc cccacaatca 180
 agcttccatc acaaagtcct gtgatcaatg tgggaaatcc caggggcccg ttggacttat 240
 ccagatccaa aaggtgcctg gtcagtgcc aacctgcaaa tagataaatg gcacaccaa 300
 acaactgagc cacgcgaatg ctcatccagg tcaagacggc gtacaccaac tgacactttt 360
 acaggggg 368

<210> 36876
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36876

accaagtaac ttctcttacc catttggtgct actatgatta tgtttaaaaa atatagtcac 360
tcattgctcc tatgtattag acacttagtt tcaatttt 398

<210> 36879
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36879

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ttaatctgac tggacctggg ggattattaa gataatgtcc attgggtttg tgttaaaaat 120
ttaatgatag gctaacatac ccacgtctga tcaccgataa acctgggtgtc atcttttatg 180
tcttggtgcg tttttaaaact tatttacagc tggacttcaa cccattgatg tataacttta 240
aagtttctcc ataattttca tagaacaccc tctcttatgc taaagacaat attgtctctc 300
cctcttccca gcctatgcac tcttctttcc tatgaatggt atatccttag gtccttggg 360
acg 363

<210> 36880
<211> 251
<212> DNA
<213> Glycine max

<400> 36880

accctgctgg actgcattct gtcgggaaat ttccaccacc cactatatct ttagtcagcc 60
aataacatac tttctccttt cccaccaccg agatatccac ataggccatc cctagatcta 120
ccacaaagtc tgttaccgc acttcttatg acgaacacca cctgtatcac aaacccaaaa 180
caccaaccct tatgtgcaat ttgcagcgag aaagcctgta gaattaaccc caattccagt 240
gtctatgctg a 251

<210> 36881
<211> 193
<212> DNA
<213> Glycine max

<400> 36881

ttactatatg taccaccccg ccacaagaaa cacaatagtc acaagctatg cgaggctttt 60

tataacaata taggcatatc tacatgctaa caacttagag accaatactc caaaatatag 120
gccactataa acataatctt atgactatca gcgcaaagct ggaggacca agagaagaat 180
gtagagggtc tac 193

<210> 36882
<211> 523
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36882

cgcgctccggg ngnggggagg atgttcattc cttgtatnac cccccnntt gatgnancna 60
ncgangccnc ncnngcncan cagcnaagga ggcgaggaga anttttttta attatnccgc 120
caccacnaa ccgagggggg tttttatttg atggcagacg ctccacttct ggtgtggccg 180
gctggatagc gtagataga gatggtctct cagcctgtac ctcataaaag acagacacga 240
ttatgtgcac ttcctaacac atggctactt ctatctgacc gcataaaaatc aatctcacga 300
ggcaatacat caccacacat gtaatcaata tgatatgcat attcactctc cgcacaaat 360
ccagacatat gatcaagtac agatgcgcat tcaatgcatg aagagtgaca gacatgcaa 420
ttagactgaa gattagtctt gtgttcatca accacatggt ccattatttc cacacgaaat 480
actagaagaa tctccgtggg tgtccttacc acccgatatt aan 523

<210> 36883
<211> 440
<212> DNA
<213> Glycine max

<400> 36883

agaggatgct tcaatgacga aagagaagga gattgtttat cacgaaattg aaggaataaa 60
agaggagag atgtggaact ttgaagtgcg ttcataaga ctttcattca tcaaagttac 120
aacaagtgtt acacatgcat ctatttatag actaggtagc ttccttgaga agctctcttg 180
agaaaacttc ctttagaagc ttccttaaga aaactttctt gagaagctag agcttagcta 240
aacacaccca tctaaaaact aagctcacct ccttgagaag cttccttgag aagctagagc 300
ttagctacac acaccctct aataactaaa ctcacctct tgagaagaga agctagagct 360

tacctacaca cccctataat agctaagcgc acacccatga caaaatacat gacaatacat 420
 aaaaacatgt ccctactact 440

<210> 36884
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36884

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 gttattggag ttaattacag gccataatgg tgcaatacca ttgtataaaa ggagatcata 120
 ttcatgaata aagcagagaa aaccattttc cagtaatagt ttagcgtaga tatccttctc 180
 ttacctctcg ctcatatcaa tcttggaaatg gtataattaa gatcagttat gcgccggctg 240
 tgcggtgcat ctcccattga taaattaagt ttcttctcca gggactcccc ccacaaaaat 300
 atagaacaaa aaacaacata cgacattgcc aataaagtga gtaaaatttg tgcacgcaa 360
 gcattccaca gccacagtga cgacgccata tatattccga gtgaaacctg atattcta 420
 cgtatcgtgc ttac 434

<210> 36885
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36885

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 agcctttttt ttctcagcac acgaccgggg gctgttttta gatagccctc tcctctagt 120
 tagaaaatta tcgtctccga ctccatcatg atgtgagatt aacctgcatt actctactat 180
 ccaactgcgt aagtacgttt gctagttatg tgacaccatc ataactcgta ttatgtacgc 240
 ttgcttgagt agccaacttg atgcgaacag atctatTTTT catcatactg tctgattagt 300
 cgatacttgt gcatgccttt cttttcaaataaaaattcata tgctaattgga aagctctctc 360
 tccgatgatt acctctgatt tgaattaagt catggcttca cgtaaatatt atttctattg 420
 ttgatgtatg tctggaatac cttattacca gtatctgatg agtatattgt atgtntctc 479

<210> 36886
 <211> 135
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36886

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 aagaaaaccg gaaaaaaagg agaggaaaag gaaatgaaag gaagaaggca aaaagcagga 120
 aaaaagaaag aaaaa 135

<210> 36887
 <211> 176
 <212> DNA
 <213> Glycine max

 <400> 36887

 gtgcttcctt ttaccctgac ggtaagattt taacaccggg gaaaccagcc ctgacagttg 60
 attaaaaagc agtattatct tctgcaaaca ccccgaaata tcccataagc agaacgtaat 120
 ttttctaca aatatccaat ttactagcac taaaagcttc tagaaagtct gatcgg 176

<210> 36888
 <211> 229
 <212> DNA
 <213> Glycine max

 <400> 36888

 caccaaggag ttaaaaaagaa tagatcacc cagaaaaagc ccaaaaaaca gccgccggaa 60
 aaaaccacc catgcgcggc ccaaaccaag tttatcaagc caaaaggga aaaaaggcga 120
 aaaaaggaaa aatatgtcac cgaacaaccc gccagcacca aaaggaaggc actcacaaaa 180
 gcacaattta gctcggccaa ctgatgcgaa caacagcaga aaacacacc 229

<210> 36889
 <211> 345
 <212> DNA
 <213> Glycine max

 <400> 36889

 atgtggcaac aaccatcact cataaagttg gataaatgct caatcaatca tgctccacat 60

tatgcaattt cacatctgac agtgaaggaa ttattgatcc ctatgaccag ataatgagac 120
 tacaatttca tctcagctct ggcaccgcaa caggttggtg atcaaatacct tcaaatacca 180
 ttgacaaatg agtttgagga tagaaggatc tatagatata ctaaagatgg ttgctacaat 240
 gtcaagagtg gatatagact ctttgtgaat tattttaagg gcattaatta taatgttttt 300
 gattgtcgac gtctcact tgtactggaa tatccagatg aatca 345

<210> 36890
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 36890

actatcgctc cagtgctagt gtttcctatc ccgagaaaac cctttgaggt gtattgtgat 60
 ggatcaaaga tgggtttagg aggagtattg atgcaaatg gccaaagtat ggcctatgct 120
 tctagacaac tcaagactca tgagaggaat tatcccaccc atgatctgga gttggctgct 180
 gtagtttttt ccttttagat gtggaggcat tacctgtttg gctctaagtt tgaggtgttt 240
 agtgatcata agatccttaa gtactcggtt agtctgaaaa agttgaacat gcacaaagg 300
 agatgggttaa agtttcttaa agattatgat tttgagctta gctaccatct caacaaagcc 360
 aatgtagtgg ctgacgcctt gagt 384

<210> 36891
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36891

cttggcattt aatagtttta agcgtaaaag ttagtttaaa ttctgtttga aattatcaat 60
 cgtacatggt ctctcaacaa tgcttcattt cagaacttaa ttcaggctaa cattagttcc 120
 ctgtgttcga tactcggatt catccgtttt aatttttaaa tacttgacga tccagtgcgc 180
 tttccggcaa accgaatttc ccttgaatat atgtgaacga agaaaaagtg gaacaaaaag 240
 taactgtagg ggaaatccaa caactactgt aggagacatg tttntctctt ttcatttctt 300
 tcattatttt ttttctttct tctctcttta ttgtttctct ttcatttga cttatttctt 360

392

<400> 36892

gggggggggt	tgaattaaga	tatccccaac	tgtttccct	aattaaaaat	ctattccact	60
ttttactcaa	gttatgaatc	cccttaatga	caatcttctt	aatattaat	tcgagcaaag	120
caacttgatt	atgaatataa	agcaataata	tataaaggag	attaagggaa	gagaaaatgc	180
aaactcagtt	ttatactggg	tcggccacac	ccttggtgct	acgttcagtc	ccaagcaat	240
ccgcttgaga	gttcactat	cttggttaatt	ccttttacaa	ggtcttaaca	cac	293

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<223>      unsure at all n locations
<400>      36893
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aatgaagaac	gnccaaaaac	nagttagttc	tttgcgaaat	tcctcaccca	caacctcacg	60
gaaacgtttc	ggaagcgctt	cggcttagat	tttcttcacg	gaaacaattt	ttccaagcaa	120
attcgaaaaga	gagagaagtg	cctaaggggc	tgaacccctt	ccttcttgcc	ttctccctt	180
atztatagca	aaatagggga	ggtggttgcc	gcccaggcga	gctcagctcg	cccaggcgag	240
catggttgct	tcctccagaa	gcaaccgctt	tctggaggaa	tattccggag	ggcccatgtg	300
ggcctgggtg	ctatttgcac	cctcattggt	actaagtaca	ccccatctgc	tgtttggttg	360
tgatgctttt	ttcgtaaagt	taccggaact	tacg			394

<400> 36894

tcttgacatc atcaaaatct tcgaggaggt acattctgcc cctttgtgat gatgacaacc 60
acctgtaggt tacgagcaac aacaaagaaa atatctattt gcatatagtt tactccccct 120

<211> 263
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36897

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 tgactatact ccaaaaaacg taaaaaccac aattcgctaa cgatctagaa taataagata 120
 ggggaacaca gagtgcataa gaaggctgtt agtcaatcac ttggtgcaag ttataaccagt 180
 gaccatctgg gccaaatcag cctgcaacac caatagcagg aacgtggaag ctccgcgcag 240
 tagcaggtgt accccctagg ggc 263

<210> 36898
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 36898

ttctttcaca atcaatctgt ctagtgacta accattctat tataagttca cactcttggt 60
 ctttcgttgt tgaacatgca catttgctca aattcatgaa aggaaacaca catttcatca 120
 taagcatcta ttcaatctaa aacaaggcat acaaccattt tcccaaaata aataaactac 180
 ttcactgcca taccatcaaa agttaagtta aactgttcac gatgcttcaa gatgagcaaa 240
 tatacaactc atgcacaaga ctaacaaaaa gtaactgatg tactaacatc aaagttatac 300
 taataattca aaaagcacag gatataatcg acagaaattt acaagtcttg tgatcaggcc 360
 taggtgtact atgtctgaac ctctctctcg tcagtcaaat gc 402

<210> 36899
 <211> 397
 <212> DNA
 <213> Glycine max
 <400> 36899

tgtaattctt cttctaagtg gagtgtggtt ctaattatgg tttctatacg cttaaagtaa 60
 aaaggactaa aagagaaaac attaaaatat taaaggatgt cagctttcta agacggttat 120
 tacatcagaa tcgtctaaga aagcagggtc tgacaaactt tctaagacta ttttgatgta 180
 ataaccgcct tagaatgttt attcttctaa gacggttcta ttataaccga ctttgaatgt 240

<223> unsure at all n locations
<400> 36902

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ncccgttttt tacgcgccac gcaacncggg gaggtgtgtt aaattgttgc ccctccccac 120
natccaacca tgacgactga tgaaagtgca atcataaaga cctggtgtcc ttgtctgtga 180
caagacgagc ttaggttctc attatatagg attgggcccg accttacgat atcaaagaaa 240
cctctggatg gcatagtatc agagaatctc tctctatatac aacctaggga gtggcgaaaa 300
gatgaaagat ggggatcata gactgtgtga tccccagatc ctgagaaata tgaaactctg 360
aggcgaataa catatgatag accccactag agatagtccg ccggcaactg ttactagtgg 420
atatcttatn ttcgaagaat cacaggtgtg gatgaaaag 459

<210> 36903
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36903

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gatcttggtt gatttgattg tggtaacaca aggattcatc aaaaaagttc ataaaaactc 120
ctattgagtt cttgtattag agatactcta aaattaaact aagctaaaat aaaaatgtag 180
tatttaactt aaactttttt tatattaaat tctcaaatta agtaatgcca cattatatct 240
tttttacatt tacaggaaca agttgatatg agatctatct agaacaagtt gtagaatttc 300
aagagaacat tcacaaacat atatatttga tatgagatct taatgacaag aataaaagca 360
actaattaaa gtaaaatttg tctcttaaaa ata 393

<210> 36904
<211> 372
<212> DNA
<213> Glycine max

<400> 36904

atztatcaa aaaaggacca acgatcgaaa agaaggaaca cataaaaata agttctaaaa 60
attgagaaag ggtgataata tactgaacat tcataaatca tatgtcagaa aggagacgtg 120

ccaccaagcg tgaccatata tgtctccact gaaaaaata aaaacactct aattttcatt 180
 tttgacatag aattggccca ttgataaaca tctgtgcaat ccaaaaaaca ataaacaata 240
 aaatgaatac acctaaactc aagaataaaa tcagagtaaa catcaatcaa aattcaaatt 300
 ttcaaaggca ttatcccgga accctggctt tatgttgcac caatcagatt aaaactacat 360
 catgttgtgt tt 372

<210> 36905
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36905

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 atatggattc ctctctccct tggctgaact cgtgaaaatg aggaagaagg tccccaaaat 120
 ttgcttttaa agaattgtga agataacgtc taaggctttt gtccaaaaga aattttgatt 180
 aagcctaatt gacaagctta attgacacca tgattgacta atggccagcc atgttgaacg 240
 tgctaagtca tgcttccgat ggggtattatt gcttttgaaa tttaaaccac aaatgggttaa 300
 agtagacata ggaaaaaata ctgaaaattg ctttcttacc aacgctccga aatcttatct 360
 taaatgtcta gattaatgtg c 381

<210> 36906
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36906

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 gaaaatagtt cggttttaag acaacaaccn cccctgtgg gtgtttatgt acgaaagacc 120
 acacaccata caagtaaggg taacatctta ctctccacat agaagggtgga cctaacgaaa 180
 taatgtgctt gtgtggtctc tcaaaagatg cataactaaa gccattgtgc gctatgcatt 240
 gataagaggc tttcaccat ctttttacat gttcatgctc atgaagatgg aacatcatac 300
 tcccatgacc tatgcttata taagtgtggg ggcaattagg tctacatacg aatagaactc 360

<210> 36909
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36909

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 aactttacga atttcgtaac aatacttatt ttccttccgc aaggttacga atacttacgg 180
 attatgtatt cactcttttt tagctttcga agaaattaca gaaacttacg gattgcgcaa 240
 aaacacctct tttcgacttc cgccacatta cagaatttca cggatcgcgc aagcctgctt 300
 ccttttagatn tctgagacgt ctcaggactt catttattgt gcaacaaagg acgccaagta 360
 tctcaaagtg gctaaccaaa 380

<210> 36910
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 36910

gactatatat gacaatatgg gtaggagccg ccggctactc actcaacaac ataaagaaaa 60
 tagcacatta ttaatatataa ttcagtttga gctggacatt cttggtcaca tcaatttctt 120
 attggttgct gtaatgtcat aactcaaac aagttgagag aaatgacgta atgacttctt 180
 aattatttaa ttctaaaagc aaccgaaggt acctaaacga atcaaatac tttcatcgga 240
 taaatgtata tgaaattcac attaattgtga caggcagctt gttaaaat 288

<210> 36911
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 36911

gacactatga tacattgagc ctctcatag gtgtatggtt catcttcaaa actgataata 60
 gacgagagag gtctctgaaa ttttctcta tcacaacatc aaagttgtcc aagactgaag 120
 aattgaattt ggcaaatgac aaatgacgag tcttagtatt gatctttgtt tctttcccaa 180

gttcttctga tctaaaataa aaatctccac cgagtgatct ggctagatca tgcattgaggt 240
 catgcatcac aaaacatttg ccataaggcc aactacttct atttgtactt gaacgttgga 300
 aaaatgatct cgatatcgaa tcatcaatat actcatgacc aacctcttct aaagtcttac 360
 catt 364

<210> 36912
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36912

gctcgcgtcg ccgtcgggtac gatgcgtagg ttgcgacact agganacttg agattttaac 60
 aaaaagactt ggtaagttgc caactaaact gtctgttggt caacctacac attctttttg 120
 tttgcagggtt acagggttgta tcatctatgg tgaggctcat gaaacacgcc aatgtattcc 180
 cattgaagaa aacacttaac aagttcacta tatgcgaaat caacagagac aaggatatac 240
 tcaaggagga ttctcatgct tctagcaggg tccttataac caacaaggac agtggagatc 300
 acaccctgac aatctattct acaaggacca ggggtggacct tccaacaggc ccattcaaca 360
 agggcctaac atctttcaga ggactactaa gttggag 397

<210> 36913
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36913

aaccttcacc aagaataaag ccgggggctat tgtgcaagca atcaatgggg caaaacacac 60
 caaatgatta tgatgataga tgggtcaaatt tctcacanag gtaaacttat cactttcaaa 120
 ttgagctttc aaaactatca tgacatgtaa aggaaaaaca aggatttcaa gtcacaaaat 180
 gtcaagagac ttttattctc agaacaatta cccattactt gaacatatcc tataattcaa 240
 agacaaacat gcaaatttaa tgcaacaaaa ctaacaaaat taaactagaa cccaacaaaa 300
 ctaacaaaat taatctaatt taacacaact aacaaaaccg aaaccaaaga aactccccc 360
 ccatactta aacaacacat tgtcctcaat gtagca 396

<210> 36914
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 36914

ctccccaaca acaaaactgg agggaggagt atgatcacat actgcccctc gacacacaac 60
 aacaataaca taccttattc attcaacatg taacttcaca cacaacacga ctaacatacc 120
 ttcgtcattc aacatgtcac atagaccatg aaaaaccaag aaatcagttg aacaatcgtg 180
 tgactctaaa cgataaaaaa caacaaaagc catcctaata tccgagaaag caaacaaaat 240
 acccattctc tgagggtgaca aaccatatcc acaaaaatta cacctcaata tagagaatcc 300
 cagataaaaa aactactctg aatcggtaga caccatcaga ccctagacat aacaaccgag 360
 acctaaacac tatacatgta t 381

<210> 36915
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 36915

ccctctcatt cacatgtccc aaccttctga gtcatat ttt agtctttgac aacctgttga 60
 catagactgc agcaactgat cccatgagca atcctgcaat tagagaatac atgccattct 120
 tttgtatccc tctcatgaat atcaaagagc cattttagaac tccattctcc cctttgaaca 180
 cataaccttg tttgtcaaaa tctctcagag aaatcaaatt tctcttcaaa tctaagacaa 240
 gcettacatt cttgatgact ctctcaacac catcatgaag cttaaaccctc acagacccaa 300
 ctcaagtgat cttacaggac ttgttgattc caagtaggat tgaaccacca acttgttcat 360
 ca 362

<210> 36916
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36916

tgatccatgg ccaccttggg ttaccaagtt atccaatgca ttcagtttgc cttcaagcgt 60
 tttatttctca gatgatgcag atggggttgt tnttctctca tgcgctcctc tagtgactat 120
 tgcattcattt gtggcgctaa actggtggga gttggaagcc atcttctcaa ttaaatttct 180
 ggcttcagca agagtcattgt ctccaagggc tccaccactg ccaacatcta tcatacttct 240
 ctccatatta ctgagtactt cataaacata ttggagataa aactgttctg aaatctgatg 300
 gtggggccac ctggcacata ttttcttata ctgggggga 339

<210> 36917
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 36917

atatggctat gaatcttagc gggttattat ttatcaaaaa aggacgaaag atagaaaaga 60
 aggaacacat aaaaataagt tctaaaaatt gagaaagggg gataatatac tgaacattca 120
 taaatcatat gtcataaagg agacgtgcc acaagcgtga ccatatatgt ctccactgaa 180
 aaaaataaaa aactctaat tttcattttt gacatagaat tggcccattg ataaacatct 240
 gtgcaatcca aaaaacaata cacaataaaa tgaatacacc taaactcaag aataaaatca 300
 gagtaaacad caatctaaat tcaaattttc aaacgcatta tccctggacc ttggctctat 360
 gtttgcataa ctgagattaa aactacatc 389

<210> 36918
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 36918

tgcaaaactt ccgctgctct tccactgggtg atgatcaagg aaggctaaat gttgaagaaa 60
 gggcacaaaa tctcatatgc cctcaccatg gcctaactat tgtgggtggat ttgagaaggg 120
 gctacgtcta agtgcttaag tagagcacac tggaatacaa tcaaaggaat aaccataccc 180
 ataactcaa aaagacattt gtacataaaa aagatgggca aactacctga tactgcctc 240
 acgaaagga aattgtccct cccacaaacc tgtat 275

<210> 36919

<211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36919

 caccaccct cactctaagc cttataagnn gtaangtggt gagtgacaat ggtgagtcgg 60
 tgggggataa gcaagtgtta cttacattct ccatcggaat ttatgttgat gaagtgcttt 120
 gtgatatggt tcccatggaa gccagacatg tggtgcttgg gagaccttgg caatatgata 180
 gagatgctgt ccacaatagg gtcaccaatt gatattcttt cttgcataaa ggtaaaatgg 240
 tagttctctc acctttgtct ccaagtgagg tttgtgagga tcaaataaaa atgagattga 300
 aaagagaaaa agaaaagata ttcaaagtaa gaaaaagtcc ttgagagag aataaccaca 360
 aagaagagaa aacataagag tgaaaccaat tagttataaa gagagtttgt ta 412

<210> 36920
 <211> 164
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36920

 ccaacaaagg cccgcagaga cgatggtgac cagcgtgatg ctccctgac atgtgtcacg 60
 catttagtgt gtgaacttca tatgcgaagg ccctgtgtgg agctgcatgc agtgggtgnt 120
 tgagttggct gcgcacgtgc acgacatgac gatctttgat gatg 164

<210> 36921
 <211> 308
 <212> DNA
 <213> Glycine max

 <400> 36921

 cacttgaaga attgcgactt cgaggaaatgc attttttgaa atcaatcact ggtaatcgat 60
 taccattaac gtgtgatcga ttacacaaca acagaggtga ttcttcattt tgaattgaga 120
 aaattaaaac gtttagaagc tctggtaatc gattacaagt gttgcgtaat cgattacact 180
 attttataat gatttgaaac tgtaaacac aaattgtaac tcttgataat gtaaactctaa 240
 acgtgttaac aacttggtaa tcccttacta cttcttggtg atcgattacc agagagtata 300

<210> 36922
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 36922

cgaatgtgct acgaccctcc gccatacaca tcgagcgcac cgatttatga taggactcaa 60
 ccacacttcc gaggtaaaag tcttcgtccc tccaatttgc atcgaccatc ggcatcaaata 120
 agcgagcgtc ctcatatgct acgggacttg atccgacttc cgagtgaata gacagtgtca 180
 cattgaaata gctacgatcg gctatcttca ataacaaagg tctcaatgta ttacgggact 240
 ctatcagact ac 252

<210> 36923
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36923

cctctaccgg agaataaaca ttgtcagcca gctgttttgt atttanattt gcgcaatgnc 60
 ggctgaagag catgtgttgt ggctgtttta ctaccgacgc tggctactgt attttctatt 120
 ccaccctga ataatacttg gacgatgtcg atttggaata gtacgatcgg agtcatccgg 180
 tcatgcttct ttttaagacc tcgatctgtc atcttttctt ggccgacgtc ggctagcatt 240
 gttttcgatc aatatctgtg aatcatgctt gttgccacag tgggctaaca gtttcatggc 300
 tgatgaaatg agagcatgcc aatgtcggtc gaaacacatc ctgcacgat aaaccctatc 360
 cgacctacat tgtaattttt gtaggcaat 389

<210> 36924
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36924

acctccactc cttatgctcc catgaaccgg ggtatagggc cttttttcac tcacagtgtg 60

tgcaaatagt gttggtgttt gtgtgcatca natgaataaa tatttacttc atgcatacat 120
 ttaaaatgta ctaaaagcaa caaagagtnt atatacacia gaacataatg aaaggaaacc 180
 aacaaagggg taagtcacgg taaaacattg cacaaaatta aatggcctaa ctctctaaaa 240
 acattcccca gtggagtcgc caactgtcgc aacctaccct tcggcgggag ggcgacgcga 300
 gactcgcggg atgctgtgtc cacgaaagga atacgcgcgg agtcgccacc aacgtttatt 360
 tgaggaaaac gtcggaaaaa ccgaaaaaga cgcgatctac 400

<210> 36925
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36925

gtgtcggtcg ttatatggcc ccgactgata tccttcagcc gacattgtgc aatttctttt 60
 acaaacgcag gccgataata tttttttacg gtagaggaaa ttttttgttt tgggtgttgcc 120
 taaaagattt acaatgtang tcggcaatgt ttttgcgtgc gagctcaatt gaggttgttt 180
 ttccggcgaa attggcttgt tctcatttag tcggtcaaga aaacgttagc ccaactgcggc 240
 aaaaaagaaa ctttattcac ggaaattgat cgaaaaaatg atgactgacg tcggcatgag 300
 gagatgcctg atcgaggttt anaaatgatg agaatcttga tagtgtctct gcctctaggc 360
 cttcatcctt ct 372

<210> 36926
 <211> 199
 <212> DNA
 <213> Glycine max
 <400> 36926

gtcctttatc tcccgtgca tatccatggc tgaaaatatc attgaaggac ctcatggaag 60
 ctcatagatc cagcctgcat agaagctcct caagcaggct tccatcacgt ggtatcacag 120
 tacaaaagct gcaagcatgt gtccttaaa cctctattaa ttgtcagcta cacacttctg 180
 ctacattgca gtttcttca 199

<210> 36927
 <211> 472

[illegible]

<210>	36928
<211>	246
<212>	DNA
<213>	Glycine max
<400>	36928

<210>	36929
<211>	249
<212>	DNA
<213>	Glycine max
<400>	36929

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 atacacctg 249

<210> 36930
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36930

ataattcaac atcgtcttat agaagtagat cctttgtatt tcagttcaca tttttttgag 60
 gtggagatac tttcctttac acctgtcgac aaacaatcat tnttgctttc tcttttgttt 120
 ggaaaacggg tatttcacac tactttttta atacatatcc tctttatact tcttaaataa 180
 atgtcaaadc gtaacagaga ataccagctg acttcttcaa tagatgtata acgaaaagaa 240
 acataataat tcacgtaagc aagtaaattgg aatatgtctc caataaattt atgccattta 300
 acaatcgttt gtatttgtaa aatatatttc gtactgatta tcattgtacct tttaattgaca 360
 cangagagaa gcacaacacg gaacaaattt gttacgataa gtctaccaat aaaagacaaa 420
 tgtctcgcat tccaattact ta 442

<210> 36931
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36931

gcagatntgg tcttcgtcag tgaaaggatc aaagtgggtt cattaaagga aaatttgatc 60
 atcctgctgg gactattgag aaaactgggg cacataaaga gggtagagaaa gagggagaaa 120
 cccatgttgt gactgccatt cctatacggc caagtttccc accaaccctaa caatgtcatt 180
 actcagccaa taacaaacct ccttaccac caccagttt tccacaaagg ccatccctaa 240
 atcaaccaca aagtctgtct accgcacttc caatgacgaa catcaccttt agcacaatcc 300
 aaaaacacgc gccagaagt gagttttgta gcggaaaaaa aacctgtaga attcaccctaa 360
 attccggtgt cctatgttga cttgtctcca tgtccactcg ataatgcagt ggttagccata 420
 aaccctgcta gggttctca atctccatt 449

<210> 36932
 <211> 417
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36932

 tcctcttagt aggggaatata tccttcctaa gatgggtgcct taccaggtcc ccttcattaa 60
 gaacgagctc atttcttctt ctatttcctt tagtagcata cacctttggt tggttcctaa 120
 ccctctcatg caacttcttt acaaactcta accttgattc cccttcttta tgtataaaag 180
 aagtgtcaag tgggagggga attaggtctt aggggtgtag aggattgaac ccatagataa 240
 cctcaaaagg ggattgcttg gttgttctat gaatccccct gtngtaggaa aattctacat 300
 aaggaagata ctaatcctaa gacttatggg ttcccttcag aaaagccctt aaaagggtgg 360
 atagagaccc attcactacc tttgtttgcc catcaattta tggatgacaa gtggtag 417

<210> 36933
 <211> 173
 <212> DNA
 <213> Glycine max

 <400> 36933

 tctacccaag ggctgagaga ccatacaagt ttcctaacca cttctaatta tgtgggcat 60
 taagtctatc atatgctgac aatagccgag aagcccatga atctcttccg ggggtggagta 120
 agtgtatgcc attgccttgg ccttggctaa caagcagga agttcttgac tcc 173

<210> 36934
 <211> 272
 <212> DNA
 <213> Glycine max

 <400> 36934

 ccaatcatgt ggcattattat ttggttat tgaagagaaa tccactaatc tatacctacg 60
 taattcctta tgacttgcaa aatcataacc tggttgcaca aatagaataa cctgtgattt 120
 cctgcataca acccaaagc cttgtaacta actcactacc agtagcatgc ccaagaagat 180
 ttgcttcaat agacattagc atgcatgta tcaattgaac gtgagaaatc atatggcgag 240
 ggttaatcct taacgcctac atcaatatgc at 272

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<210>      36935
<211>      342
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      36935
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ctaactaaat	aaactaaaca	tatttactgc	tttattaaca	taaactgana	ataagaggtg	60
tgtgtagtat	aaaaataaat	gaaactcctg	tcaacaatca	tcctgagcaa	caatatgctc	120
gtcctgagct	gacgtatgct	ggccatgagg	tgaacaacga	gtatcctggg	ctggttgagg	180
agtctccaat	gtgctgtacg	ccaaggatcc	caagtactct	gcgccgccta	tatatctgct	240
gcatattcag	tgttctcggc	gccttcttca	ccctcagaga	cctccacgac	aggtaaagta	300
gcatgtgaaa	cctgtggaat	ggcctcatga	gtaacctcta	tc		342